

ASSC 20

20th. ANNUAL MEETING
OF THE ASSOCIATION
FOR THE SCIENTIFIC
STUDY OF
CONSCIOUSNESS

BUENOS AIRES | JUNE 2016



www.theassc.org

ASSC 20



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WELCOME TO BUENOS AIRES

Dear participants,

Welcome to Buenos Aires and welcome to the 20th Conference of the Association for the Scientific Study of Consciousness!

The annual ASSC meetings are the landmark forum for the dissemination, discussion, and advancement of empirical and conceptual studies of consciousness each year. This 20th anniversary fills our hearts (!) with pride. The 4 day meeting (plus 1 day of tutorial sessions) brings together leading researchers in neuroscience, psychology, cognitive science, philosophy, psychiatry, neurology, and computer science in a forum dedicated to showcasing and advancing rigorous scientific approaches to understanding the nature, function, and underlying mechanisms of conscious experience. The breadth, depth, and richness of salient findings reported and the scientific thought represented in this year's submissions testifies to the vitality and creativity of our interdisciplinary community. Buenos Aires will not only be a premier scientific meeting, but a citywide celebration of consciousness science. We already have an exciting line-up of keynote speakers: Frank Tong (Vanderbilt University), Biyu He (NIH/NINDS), Henrik Ehrsson (Karolinska Institutet), Michael Graziano (Princeton University), Frederique de Vignemont (Institute Jean-Nicod), Jakob Hohwy (Monash University). We are also delighted to announce a special event "A Tribute to Daniel Dennett's Consciousness", with talks by the man himself, Stanislas Dehaene and Rodrigo Quian Quiroga. Dennett's influences in the field and beyond are incalculable and we are delighted to be able to host this once in a lifetime event. We will also have Steven Laureys' presidential address and Satoshi Tajima as this year's William James Prize lecturer. At the core of the ASSC20 are the wonderful posters (two sessions of 70) and amazing 48 concurrent talks we have this year, plus a top series of Symposia featuring great complementary discussion about consciousness, bravo for the wonderful program we will enjoy in the next few days. Science is based on interaction and we offer a number of options to exchange ideas beyond the scientific schedule, e.g., the Welcome Reception, the ASSC Social, the Milonga Dinner and the ASSC After Party plus multiple coffee breaks and lunch promenades. We are very pleased to have secured a venue in the heart of Palermo, you will soon find how rich and inviting is the area and the city. Organizing such a big event would not have been possible without the help of our various and generous sponsors, the precious advice of the Director and members of the ASSC Executive Committee and of the organizers of past ASSC Meetings, the hard work of the members of the Scientific Program Committee, and the dedication of our assistants and our Student Committee. We would like to extend a special thanks to all of them!

The Organizers.

ORGANIZERS

The organizers of the ASSC-XX are four of the most renowned and influential researchers in Argentina (and worldwide) on Cognition and Consciousness.



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ABOUT THE ASSC

The ASSC is an academic society that promotes rigorous research directed toward understanding the nature, function, and underlying mechanisms of consciousness. The ASSC includes members working in the fields of cognitive science, medicine, neuroscience, philosophy, psychology, and other relevant disciplines in the sciences and humanities.

CONFERENCE VENUE

Centro Cultural de la Ciencia inside the Ministry of Science.

Director: Dr. Diego Golombek

Godoy Cruz 2270 (C1425FQD) Ciudad Autónoma de Buenos Aires, Argentina.

Tel: (54-11) 4899-5000 int. 1309

<http://ccciencia.gob.ar/>



GENERAL INFORMATION

COFFEE BREAKS

Coffee breaks will be provided twice a day in the exhibition area.

ASSC will not provide lunch, but there are several places where you can go for lunch around the venue.

WELCOME RECEPTION

Centro Cultural de la Ciencia

ASSC students' Social

Dumont,
Ayacucho 920

ASSC dinner & milonga

Soc. Central de Arquitectos
Montevideo 938, C1019ABT Buenos Aires.

AFTER PARTY

Undisclosed location

14 JUNE, 2016

TUTORIALS 1 - 2

9:00 am to 12:00 pm

1. Integrated Information: Theory and Practice

William Marshall, Madison.

2. Human Neurophysiology in Normal and Impaired Conscious Perception

Aaron Schurger, Paris.

Jacobo Sitt, Paris.

Wendy Xiao, Yale.

Hal Blumenfeld, Yale.

LUNCH BREAK - 12:00 pm to 1:30 pm

TUTORIALS 3 - 4

1:30 pm to 4:30 pm

1. The metacognitive approach to studying consciousness: promises and caveats

Hakwan Lau, California.

2. Predictive Processing & Consciousness

Thomas Metzinger, Mainz.

Wanja Wiese, Mainz.

COFFEE BREAK I

4:30 pm to 5:00 pm

In the Gazebo

OPENING REMARKS

(Brief History of the

ASSC) & James Prize

Lecture

5:00 pm to 6:00 pm

PRESIDENTIAL ADDRESS

(Steven Laureys)

6:00 pm to 7:00 pm

WELCOME RECEPTION

7:00 pm to 8:30 pm

ASSC 20

15 JUNE, 2016

KEYNOTE LECTURE 1: FRANK TONG 9:00 am to 10:00 am

"The role of early visual areas in consciousness and visual cognition"

COFFEE BREAK I

10:00 am to 10:30 am

SYMPOSIUM 1 10:30 am to 12:30 pm

Linking "Metacognition, predictive coding, and consciousness"

David Rosenthal, New York.

Consciousness and Metacognition

Micah Allen, London.

Embodied gain control, predictive coding, and metacognitive awareness

Axel Cleeremans (Chair), Brussels.

The Radical Plasticity Thesis: Consciousness as learned metacognition

Sid Kouider, Paris.

Developing a reflective mind: consciousness, predictive coding and metacognition in the infant brain

MENTOR'S LUNCH OR LUNCH BREAK

12:30 pm to 2:00 pm

CONCURRENT SESSION 1

2:00 pm to 3:30 pm

Visual Awareness

Marta Tukowska	<i>Ask your heart what you have seen: post-decision cardiac activity as a source information for visibility judgments.</i>
Olivia Carter	<i>Perceptual dynamics of binocular rivalry correlate with Gamma Aminobutyric Acid (GABA) concentration assessed using 1H Magnetic Resonance Spectroscopy when both younger and older adults are included in the sample.</i>
Ryota Kanai	<i>Computational phenomenology for information-based theories of consciousness</i>
Aurelio Cortese	<i>Using Multivoxel Neurofeedback to Induce Blindsight in Sighted Subjects</i>

Metacognition

Alexandra Vlassova	<i>Metacognitive insight in the absence of perceptual awareness</i>
Marta Siedlecka	<i>Motor response, not decision itself influences metacognitive accuracy.</i>
Brian Maniscalco	<i>Is the architecture of conscious processing dual-route or hierarchical? Multiple dissociations between subjective awareness and objective task performance support the hierarchical model</i>
Jorge Morales	<i>Multivoxel pattern analysis reveals specific metacognitive content in prefrontal cortex</i>

Cognition and Consciousness

Victor Lamme	<i>Are there any cognitive functions left that require consciousness?</i>
Valdas Noreika	<i>Suppression of consciousness in the transition from wakefulness to sleep</i>
Hugh Rabagliati	<i>The importance of conscious awareness for understanding sentences</i>
Hsin-Ping Wu	<i>The artistic autistic savant as an empirical support for dissociable phenomenal consciousness</i>

COFFEE BREAK

3:30 pm to 4:00 pm

CONCURRENT SESSION 2

4:00 pm to 5:30 pm

Theory

JD	Knotts	<i>Human subjects have +D29 optimal introspective access even under varieties of masking conditions</i>
Joel	Parthemore	<i>The Unified Conceptual Space Theory as a Theory of Consciousness</i>
Wanja	Wiese	<i>How can experienced temporal continua be accounted for in terms of finite neural states?</i>
Gustav	Markkula	<i>Why generic neural correlates of consciousness might be impossible to find: The example of post-stimulus cueing</i> <i>Bistable awareness</i>
Eugenio	Rodriguez	<i>While you don't ask It's both a vase and a face: Simultaneous neural processing of an inattentively viewed bistable stimulus</i>
Andres	Canales-Johnson	<i>Frontoparietal neural information dissociates endogenous representations during bistable perception</i>
Megumi	Fukuda	<i>Resting-state network architecture predicts individual switch frequencies in bistable perception</i>
Mihaela	Taranu	<i>Searching for the role of the parietal cortex in visual and auditory multistability</i>

Agency

Myrto	Mylopoulos	<i>Is the sense of agency a form of metacognition?</i>
Michał	Wierchoń	<i>Seeing with hands and ears. Sensory substitution and perceptual awareness</i>
Keisuke	Suzuki	<i>Modifying sensorimotor coupling in augmented reality modulates perceptual presence of objects</i>
Avid	Guterstam	<i>Ownership of an Artificial Limb Induced by Electrical Brain Stimulation</i>

KEYNOTE LECTURE 2: FREDERIQUE DE VIGNEMONT 5:30 pm to 6:30 pm

The Bodyguard hypothesis: An agentic conception
of the sense of bodily ownership

ASSC STUDENTS' SOCIAL

8:00 pm to 10:30 pm

Dumont - Ayacucho 920
18 minutes away taking
the subway)

16 JUNE, 2016

KEYNOTE LECTURE 3: JAKOB HOHWY 9:00 am to 10:00 am

"From inference to consciousness"

COFFEE BREAK I

10:00 am to 10:30 am

POSTER SESSION

10:30 am to 12:30 pm

LUNCH BREAK & POSTERS

12:30 pm to 2:00 pm

ASSC 20

A

SYMPOSIUM 2 2:00 pm to 4 pm

Consciousness beyond vision Understanding the role of multisensory signals in perceptual and self-consciousness

Anat Arzi, Cambridge.

Scents and sensibility: multisensory integration with unconscious perceived odors

D

Claudia Lunghi, Pisa.

Crossmodal interactions without visual awareness (Italy)

Roy Salomon, Geneva.

Unconscious multisensory integration from perceptual awareness to self-consciousness.

Nathan Faivre (Chair), Paris.

Is metacognition supramodal?

Z

COFFEE BREAK I**4:00 pm to 4:30 pm**

CONCURRENT SESSION 3**4:30 pm to 6:00 pm**

E

Altered States

Warrick	Roseboom	Hallucination machines: Simulating visual hallucination using Google Deep Dream in Substitutional Reality
Luca	lemi	Reduced spontaneous neural oscillations predispose to perceptual hallucinations in visual detection
Federico	Raimondo	Conscious auditory processing perturbs ongoing cardiac rhythm
Draulio	de Araujo	The psychedelic Ayahuasca: studies of its acute, lasting and antidepressant effects.
Prediction		
David	Carmel	Bidirectional modulation of predictive coding in parietal cortex
Holly	Phillips	Hierarchical prediction networks generating mismatch negativity responses in MEG and ECoG
Lieke	Asma	Action control, conscious intervention, and first-order consciousness
camille	Rozier	A subliminal stimulus can exert a long lasting modulation of expectancy processes

Disorders of consciousness

Vincent	Taschereau-Dumouchel	Towards Unconscious Exposure Therapy via Multivoxel Neurofeedback
Lizette	Heine	Resting state functional connectivity in sedated patients with disorders of consciousness
Robert	Foley	Why don't covert responders act?
Amelie	Haugg	The functional connectivity of conscious information processing during movie watching

G

KEYNOTE LECTURE 4: MICHAEL GRAZIANO 6:00 pm to 7:00 pm

"Consciousness and the Social Brain"

A

ASSC 20

17 JUNE, 2016

KEYNOTE LECTURE 5: BIYU HE 9:00 am to 10:00 am

"Unravelling large-scale brain dynamics underlying perceptual awareness"

COFFEE BREAK

10:00 am to 10:30 am

SYMPOSIUM 3 10:30 am to 12:30 pm

"Consciousness-meters" for assessing levels of consciousness: from research, to clinics and ethics.

Jacobo Diego Sitt, Paris.

EEG signatures of awareness in the resting-state brain activity dynamics

Simone Sarasso, Milan.

Stratification of unresponsive patients by an independently validated index of brain complexity

Athena Demertzi (Chair), Paris.

Intrinsic fMRI functional architecture differentiates single patients after severe brain injury

Prof. Dr. Wim Pinxten, Belgium.

Medical Ethics - Faculty of Medicine and Life Sciences
Hasselt University

CAREER PANEL LUNCH

12:30 pm to 2:00 pm

POSTER SESSION AND COFFEE

2:00 pm to 4:30 pm

A TRIBUTE TO DENNETT'S CONSCIOUSNESS

4:30 pm to 6:30 pm

Talks by Stanislas Dehaene,
Rodrigo Quian Quiroga and
-of course- Dan Dennett

ASSC DINNER & MILONGA

9:00 pm to midnight

La flor de Barracas
Suarez 2095

ASSC 20

18 JUNE, 2016

KEYNOTE LECTURE 6: HENRIK EHRSSON 9:00 am to 10:00 am

"Out of body, out of mind: the bodily self and embodied cognition"

COFFEE BREAK

10:00 am to 10:30 am

SYMPOSIUM 4 10:30 am to 12:30 pm

Does unconscious perception really exist?

Ned Block, New York.

The Anna Karenina Principle and Unconscious Perception

Bob Kentridge, Durham.

The Unconscious Perception of Colour

Ian Phillips (Chair), Oxford.

What We Need to Think about When We Think about Unconscious Perception

Megan Peters (Chair), California.

"Unconscious Direct Discrimination" Isn't Actually Unconscious

LUNCH BREAK

12:30 pm to 2:00 pm

CONCURRENT SESSION 4

2:00 pm to 3:30 pm

Metacognition

Achoui	Training metacognitive judgments in a visual discrimination task
Kaunitz	The Speed of Metacognition
Samaha	Dissociating perceptual confidence from discrimination accuracy reveals no influence of metacognitive awareness on working memory
Klock	Metacognition in Schizophrenia: Introspective Accuracy, Confidence Bias, Illness Insight and its Neuroanatomical Basis

Attention

Odegaard	Is conscious phenomenology in the unattended background real or inflated?
Rimsky-Robert	Retroactive attention can induce conscious perception of subliminal words and their visual features.
Anlo	The cognitive mechanisms of Hypnotic Attentional Modulation: insights from an Attentional Blink Study
Snyder	Broad attention to multiple individual objects may facilitate change detection with complex auditory scenes

Visual Awareness

Xiao	An organized wave of intracranial broadband gamma activity during the first second of conscious visual perception
Kronemer	The cortical event-related potential and alpha wave signatures for visual consciousness
Webb	Manipulating visual awareness while controlling attention: effects on cortical networks
Porot	There are no holes in conscious vision

COFFEE BREAK

3:30 pm to 4:00 pm

ASSC 20

AGENDA

SYMPOSIUM 5 4:00 pm to 6:00 pm

"The quest for neural correlates of consciousness - New directions and challenges for established perspectives"

Stanislas Dehaene, Paris.

The relationship between working memory and consciousness: a re-examination using MEG decoding techniques

Melanie Boly, Madison.

Integrated information theory: from consciousness to its physical substrate

Michael Snodgrass, Michigan.

Complex Unconscious Processing: Implications for Theories of Consciousness

Christine Blume, Salzburg.

Novel approaches in consciousness research

CLOSING REMARKS AND VINO

6:00 pm to 7:00 pm

ASSC 20



Save the date
ASSC 21
JUNE 13th-16th, 2017
BEIJING, CHINA



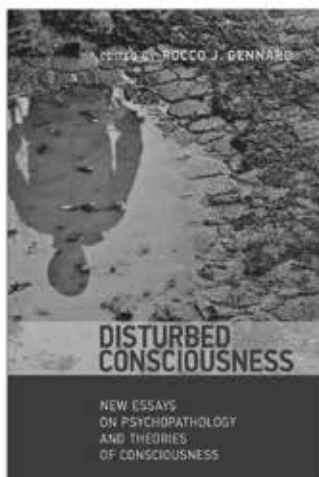
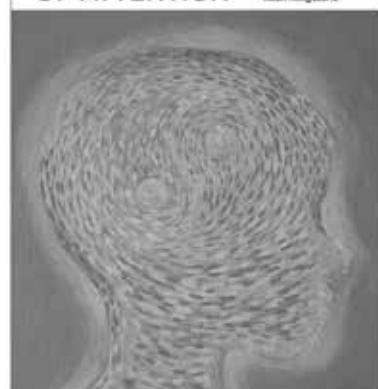
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Todd E. Feinberg and Jon M. Mallat



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Edited by Maxim I. Stamenov

Bulgarian Academy of Sciences

Provides a forum for scholars from different scientific disciplines and fields of knowledge who study consciousness in its multifaceted aspects. Thus the Series includes (but is not limited to) the various areas of cognitive science, including cognitive psychology, brain science, philosophy and linguistics. The orientation of the series is toward developing new interdisciplinary and integrative approaches for the investigation, description and theory of consciousness, as well as the practical consequences of this research for the individual in society.

ISSN: 1381-589X

New in the AiCR-series:

Visually Situated Language Comprehension

Edited by Pia Knoeferle, Pirita Pykkönen-Klauck and Matthew W. Crocker

Humboldt University Berlin / Saarland University, Norwegian University of Science and Technology



Visually Situated Language Comprehension has been compiled as a state-of-the-art introduction to real-time language processing in visually-situated contexts. It covers the history of this emergent field, explains key methodological developments and discusses the insights these methods have enabled into how language processing interacts with our knowledge and perception of the immediate environment. Scientists interested in how language users integrate what they know with their perception of objects and events will find the book a rewarding read. The book further covers lexical, sentence, and discourse level processes, as well as active visual context effects in both non-interactive and interactive tasks and thus present a well-balanced view of the field. It is aimed at experienced researchers and students alike in the hopes of attracting new talent to the field. Thanks to its in-depth methodological introduction and broad coverage it constitutes an excellent course book.

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Program overview

14 JUNE

TUTORIALS 1 AND 2 9.00 am to 12.00 pm
LUNCH BREAK 12.00 pm to 1.30 pm
TUTORIALS 3 AND 4 1.30 to 4.30 pm
COFFEE BREAK 1 4.30 to 5.00 pm
OPENING REMARKS 5.00 to 6.00pm <i>Brief History of the Assc&James Prize lecture</i>
PRESIDENTIAL ADDRESS 6.00 to 7.00 pm Steven Laureys
WELCOME RECEPTION 7.00 to 8.30 pm

15 JUNE

KEYNOTE LECTURE 1 FRANK TONG 9.00 to 10.00 am
COFFEE BREAK 10.00 to 10.30 am
SYMPOSIUM 1 10.30 am to 12.30 pm
MENTOR'S LUNCH OR LUNCH BREAK 12.30 to 2.00 pm
CONCURRENT SESSION 1 2.00 to 3.30 pm
COFFEE BREAK 3.30 to 4.00 pm
CONCURRENT SESSION 2 4.00 to 5.30 pm
KEYNOTE 2: FREDERIQUE DE VIGNEMONT TBA 5.30 to 6.30 pm
ASSC STUDENTS' SOCIAL 8.00 to 10.30 pm

16 JUNE

KEYNOTE 3 JAKOB HOHWY TBA 9.00 to 10.00 am
COFFEE BREAK 1 10.00 to 10.30 am
POSTER SESSION 10.30 am to 12.30 pm
LUNCH BREAK & POSTERS 12.30 to 2.00 pm
SYMPOSIUM 2 2.00 to 4.00 pm
COFFEE BREAK 4.00 to 4.30 pm
CONCURRENT SESSION 3 4.30 to 6.00 pm
KEYNOTE LECTURE 4 MICHAEL GRAZIANO 6.00 to 7.00 pm

17 JUNE

KEYNOTE LECTURE 5 BIYU HE TBA 9.00 to 10.00 am
COFFEE BREAK 10.00 to 10.30 am
SYMPOSIUM 3 10.30 to 12.30 pm
CAREER PANEL LUNCH 12.30 to 2.00 pm
POSTER SESSION AND COFFEE 2.00 to 4.30 pm
A TRIBUTE TO DENNETT'S CONSCIOUSNESS 4.30 to 6.30 pm
ASSC DINNER & MILONGA 9.00 pm

18 JUNE

KEYNOTE LECTURE 6 HENRIK EHRSOHN 9.00 to 10.00 am
COFFEE BREAK 10.00 to 10.30 am
SYMPOSIUM 4 10.30 am to 12.30 pm
LUNCH BREAK 12.30 to 2.00 pm
CONCURRENT SESSION 4 2.00 to 3.30 pm
COFFEE BREAK 3.30 to 4.00 pm
SYMPOSIUM 5 4.00 to 6.00 pm
CLOSING REMARKS AND VINO 6.00 to 7.00 pm