Dear Participants,

Welcome to the 22nd Annual Conference of the Association for the Scientific Study of Consciousness!

We are pleased to host you in Krakow, a historical capital of Poland, located in the southwest of the country, between the Jura uplands and the Tatra Mountains, on the banks of the Vistula River. The city was designated as one of the nine European Cities of Culture in 2000 - we hope you will find it justified! It has one of the largest and best-preserved medieval main squares in Europe and its Old Town - the historical central districts - is inscribed on the UNESCO List of World Heritage Sites. In its proximity you can find another major tourist attraction - Kazimierz district which was a place of coexistence and interpenetration of ethnic Polish and Jewish cultures for centuries.

This city was also the cradle of the first Polish Academy - the Jagiellonian University in Krakow was founded in 1364 and it is one of the oldest universities in continuous operation. At present University provides higher education to over 43 000 students. Psychology studies were started in 1903 and the Consciousness Lab (c-lab) was founded at the Institute of Psychology in 2009. We run psychological, electrophysiological and neuroimaging studies on diverse subjects related to consciousness, cooperating with several scientific centers in Poland and abroad.
The goal of annual meeting of ASSC is to promote research on consciousness and to enable vibrant discussion on the subject. For this year’s edition we have prepared a rich program that consists of 10 tutorials, 5 symposiums, 188 poster presentations, 92 talks and 6 keynotes lectures given by Patrick Haggard, Joseph LeDoux, Melanie Boly, Mazviita Chirimuuta, Axel Cleeremans and Hugo Critchley, You will be also able to profit from informal meetings during evening social events, like Welcome Reception, Students’ Social Event (and Career Panel for younger researchers before the party), Dinner in Wieliczka Salt Mine (connected with a guided tour) and Closing Party (with projection of “The Most Unknown” feature documentary).

We would like to express our gratitude to our generous sponsors, all the members of the Local Organising Committee for their hard work for the last few months and all the volunteers for their presence and willingness to help. Thank you very much for your support and commitment to this event!

Local Committee

Michał Wierzchoń (chair)
Marek Binder
Marcin Miłkowski
Marta Siedlecka
COMMITTEES & EXECUTIVE BOARD

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Patrick Haggard, University College London - President
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Aurelio Cortese (2015-2018)
Sharif Kronemer (2016-2019)
Michael Brito (2017-2020)

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Michał Wierzchoń (chair)
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Marcin Miłkowski
Marta Siedlecka

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Mel Goodale
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Sheng He
Marcello Massimini
Lucia Melloni
Thomas Metzinger
David Rosenthal
Catherine Tallon-Baudry
Naotsugu Tsuchiya
Michał Wierzchoń
ABOUT 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.

ASSC was founded in 1994, the first executive board was formed in 1996 and the first conference was placed in Claremont (USA) in 1997. Since then our annual meetings are rotated between Europe, Asia and Americas.

Past ASSC Meetings

ASSC 21 – Beijing, China
ASSC 20 - Buenos Aires, Argentina
ASSC 19 – Paris, France
ASSC 18 – Brisbane, Australia
ASSC 17 - San Diego, USA
ASSC 16 – Brighton, UK
ASSC 15 – Kyoto, Japan
ASSC 14 – Toronto, Canada
ASSC 13 – Berlin, Germany
ASSC 12 – Taipei, Taiwan
ASSC 11 - Las Vegas, USA

ASSC 10 – Oxford, UK
ASSC 9 – Pasadena, USA
ASSC 8 – Antwerp, Belgium
ASSC 7 – Memphis, USA
ASSC 6 – Barcelona, Spain
ASSC 5 – Durham, USA
ASSC 4 – Brussels, Belgium
ASSC 3 – London, UK
ASSC 2 – Bremen, Germany
ASSC 1 – Claremont, USA
GENERAL INFORMATION

Conference Venue
The conference will be held at Jagiellonian University, in Auditorium Maximum. The building is located in the city center, 10 minutes from the Main Market Square, on 33 Krupnicza Street.

Poster Sessions
will be held in the neighbouring building (Faculty of Law and Administration), on the 33a Krupnicza Street.

Tutorials
will take place in the Institute of Psychology (6 Ingardena street), five-minute walk from the main conference venue.

SOCIAL EVENTS
Welcome Reception | 26/06
Welcome Reception will take place on the courtyard of Collegium Maius (15, Jagiellońska Street) at 7:00 pm

Students’ Social Event | 27/06
The event will take place at Barka (16, Podgór ska street, by the Vistula river). It starts at 8.30 pm, just after the Career Panel. Snacks and vouchers for drinks (for student members) are provided by ASSC.

The Conference Dinner | 28/06
Will be held in Wieliczka Salt Mine. There will be free bus transport for all participants to Wieliczka and back to Krakow (20-30 min. of travel, bus stop at the conference venue). Departure around 7:00 pm (just after the concurrent sessions end). Registration is required.

Poor Man’s Dinner | 28/06
Alternative option to the Gala Dinner, it will take place at Dolnych Młynów 10 (also known as Tytano) 7:30 pm. This is a casually organised event; meeting point will be set in the area of Weże Krafta and Hala Główna bars, attendees are encouraged to find their own favourite place to eat. No registration required.

Closing Party | 29/06
Closing Party will be held at Serce club (41, Krakowska street). The party starts at 10:00 pm. Before the party there will be a projection of the movie “The most unknown”, starring Anil Seth and Axel Cleeremans. The film starts at 8:00 pm and lasts 1,5h. The party is open to public, however ASSC participants have priority (you need the bracelet included in the conference materials).
Conference Venue Plan

GENERAL INFORMATION

Conference Venue Plan

Access to LARGE HALL A (also available on the 1st floor)

BATHROOM

SEMINAR ROOM LUNCH AREA

EXHIBITION ROOM LUNCH AREA

CONFERENCE ROOM MENTOR’S LUNCH

LARGE HALL A

LARGE HALL B

STAIRS

LIFT

LIFT

LIFT

ACCESS TO LARGE HALL A

ACCESS TO LARGE HALL B

(available on the 1st floor)

GROUND FLOOR

MAIN ENTRANCE

33 KRUPNICZA STREET

2ND FLOOR
AGENDA
Tuesday 26/06/18

9:00-18:00  Registration

9:00-12:00  Tutorials

Computational models of perception, metacognition, and consciousness: a hands-on tutorial  
Brian Odegaard, Megan Peters

Integrated Information Theory of Consciousness: Introduction, Tutorial, and Extrapolations  
L. Albantakis 
M. Boly 
A. Hawn 
W. Marshall

The empirical study of altered states of consciousness: Common standards in the psychometric assessment of subjective experiences  
T.T. Schmidt

Time and Consciousness  
P. Droege

Using Bayes factors to provide evidence for no effect  
Z. Dienes
#ASSC22

13:00-16:00 **Tutorials**

<table>
<thead>
<tr>
<th>Time</th>
<th>Tutorials</th>
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<tbody>
<tr>
<td>13:00-16:00</td>
<td><strong>Changing The Brain Unconsciously Using Real-Time Neurofeedback</strong></td>
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<td>V. Taschereau-Dumouchel, J. Ekanayake, S. Kimmich</td>
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<td></td>
<td><strong>History and philosophy of science perspectives on consciousness</strong></td>
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<td></td>
<td>M. Michel, M. Chirimuuta, H. Lau, L. Irvine</td>
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<td><strong>Integrated information – a practical approach</strong></td>
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<td>N. Tsuchiya, M. Oizumi</td>
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<td><strong>Investigating cortical and subcortical mechanisms of conscious perception</strong></td>
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<td></td>
<td>S. Kronemer, H. Blumenfeld, M. Boly, L. Melloni, M. Wilke</td>
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<td><strong>Single-case evaluation of consciousness: same patient, different modalities</strong></td>
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<td>J. Annen, C. Chatelle, S. Chennu, A. Demertzi, O. Gosseries, J.D. Sitt, A. Thibaut</td>
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</table>

16:30-17:00 **Opening remarks**

17:00-18:00 **Keynote Lecture | Patrick Haggard**
Voluntary action and conscious experience

18:00-19:00 **Keynote Lecture | Joseph LeDoux**
Putting Emotion into Consciousness

19:00-22:00 **Welcome reception**
The reception will be held at *Collegium Maius*, (15, Jagiellońska Street)
AGENDA
Wednesday 27/06/18

9:00-10:00  Keynote Lecture | Melanie Boly
Are the neural correlates of consciousness mostly in the front or in the back of the cerebral cortex?

10:00-10:30  Coffee Break

10:30-12:30  Plenary Symposium
S. Schneider | H. Lau | R. Kanai | L. Miracchi
Consciousness and artificial intelligence

12:30-14:30  Lunch

12:00-14:30  Poster Session 1
The poster session will be held at the Jagiellonian University
Law & Administration Department
14:30-16:10 Concurrent Sessions 1

- Integrated Information Theory  Large Lecture Hall A
- Models and theories of consciousness  Large Lecture Hall B
- Unconscious perception  Medium Hall A
- Time and temporal processing  Medium Hall B

16:10-16:30 Coffee Break

16:30-17:30 Keynote Lecture | Mazviita Chirimuuta

The Irreducibility of Colour

17:30-19:30 Concurrent Sessions 2

- Disorders of consciousness  Large Lecture Hall A
- Bodily awareness  Large Lecture Hall B
- Unconscious processing  Medium Hall A
- Perceptual content  Medium Hall B

20:00-21:00 Career Panel Soiree

20:30-23:00 Students’ social event

The events will be held at the Barka Club by the Vistula river / Podgórksa 16
AGENDA
Thursday 28/06/18

9:00-10:00  Keynote Lecture | Axel Cleeremans
Being Virtual

10:00-10:30  Coffee Break

10:30-12:30  Plenary Symposium 2
A. Clark | R. Salomon | P. Fletcher | P. Corlett
Psychiatry as a Window to Consciousness

12:30-14:30  Lunch

12:00-14:30  Poster Session 2
The poster session will be held at the Jagiellonian University
Law & Administration Department
### 14:30-16:30 Plenary Symposium 3

**V. Lamme | A. Barret | E. Schechter | Y. Pinto**

Conscious unity - how does a healthy brain create one conscious subject?

### 16:30-17:00 Coffee Break

### 17:00-19:00 Concurrent Sessions 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>17:00-18:00</td>
<td>Sleep and dreams</td>
<td>Large Lecture Hall A</td>
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<tr>
<td>18:00-19:00</td>
<td>Bodily awareness</td>
<td>Large Lecture Hall B</td>
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<tr>
<td>18:00-19:00</td>
<td>Top-down influence on conscious processing</td>
<td>Medium Hall A</td>
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<tr>
<td>19:00-20:00</td>
<td>Agency and self</td>
<td>Medium Hall B</td>
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### Wieliczka Salt Mine

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>19:30-21:00</td>
<td>Guided Tour</td>
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<td>21:00-23:00</td>
<td>Gala Dinner</td>
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</table>
AGENDA
Friday 29/06/18

9:00-10:00 Keynote Lecture | Hugo Critchley
Interoception, insight and emotion: Neural mechanisms

10:00-10:30 Coffee Break

10:30-12:30 Plenary Symposium 4
S. Bode | A. Bompas | L. Charles | J. Zhang
Understanding the neurocognitive underpinnings of voluntary act

12:30-13:30 Lunch & Mentor’s Lunch
Mentor’s Lunch will be held in Conference Room, 2nd Floor
### Agenda

#### Friday 29/06/18

18:00-19:00  
**Closing Address**

The poster session will be held at the Jagiellonian University Law & Administration Department

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<thead>
<tr>
<th>Time</th>
<th>Concurrent Sessions 4</th>
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<tbody>
<tr>
<td>13:30-15:30</td>
<td><strong>Altered states of consciousness</strong> Large Lecture Hall A</td>
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<td><strong>Self-related processing</strong> Large Lecture Hall B</td>
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<td><strong>Confidence, metacognition</strong> Medium Hall A</td>
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<td><strong>Perceptual consciousness</strong> Medium Hall B</td>
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</tbody>
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15:30-16:00  
**Coffee Break**

16:00-18:00  
**Plenary Symposium 5**

F. Vollenweider  | O. Carter  | A. Gopnik  | R. Carhart-Harris
What Can the Science of Consciousness Learn from the Study of Psychedelics?

18:00-19:00  
**Closing Address**

The party will be held in the Kazimierz District
Serce Club / Krakowska 41 / 33-332 Kraków

20:00-19:00  
**Closing party**

The party will be held in the Kazimierz District
Serce Club / Krakowska 41 / 33-332 Kraków
Consciousness and Artificial Intelligence
Chair: Lisa Miracchi

Susan Schneider | Artificial General Intelligence and Conscious AI: Transcending the Brain
Hakwan Lau | Generative Adversarial Networks and the Inner Sense Theory of Consciousness
Ryota Kanai | Creating a Machine with Consciousness
Lisa Miracchi | The Easy Problem's Not So Easy: AI Research Helps Us Rethink the Functional Role of Consciousness

Psychiatry as a Window to Consciousness
Chair: Roy Salomon

Andy Clark | Computational Psychiatry and the Origins of Conscious Experience
Roy Salomon | Psychosis and the Disruption of the Self
Paul C. Fletcher | Noise, uncertainty and the mechanisms of psychosis
Philip R. Corlett | Hallucinations as top-down effects on perception

Conscious unity - how does a healthy brain create one conscious subject?
Chair: Yair Pinto

Victor Lamme | Challenging the assumption of conscious unity
Adam Barrett | Integrated Information Theory, Complexity, Conscious Unity and Disconnection
Elizabeth Schechter | Consciousness and Agency in the Split-brain Case
Yair Pinto | Unified consciousness in split-brain patients
Understanding the neurocognitive underpinnings of voluntary act
Chair: Jiaxiang Zhang

- Stefan Bode | The role of voluntary decisions in shaping future preferences
- Aline Bompas | On the (un)predictability of free choice: modelling and MEG
- Lucie Charles | Detaching from external influence: a computational model for free choices
- Jiaxiang Zhang | Choosing without rules: evidence from modelling and brain imaging

What Can the Science of Consciousness Learn from the Study of Psychedelics?
Chair: Tim Bayne, Monash University

- Franz Vollenweider | Psychedelics and Naturally Occurring Psychosis
- Olivia Carter | Psychedelics and the Psychophysics of Consciousness
- Alison Gopnik | Psychedelics and the Development of Consciousness
- Robin Carhart-Harris | Psychedelics and the Neuroscience of Consciousness
<table>
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<tr>
<th>Time</th>
<th>Large Lecture Hall A</th>
<th>Large Lecture Hall B</th>
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<tbody>
<tr>
<td>14:30</td>
<td><strong>The Integrated Information Theory of Consciousness &amp; Hylomorphism: Exploring Common Ground</strong>&lt;br&gt;Matthew Owen</td>
<td><strong>Inference rules for identifying the content NCCs based on Pearl’s causal analysis framework</strong>&lt;br&gt;Borysław Paulewicz</td>
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<td>14:50</td>
<td><strong>Characterizing ‘free’ actions within the causal framework of IIT</strong>&lt;br&gt;Larissa Albantakis</td>
<td><strong>Why we are looking in the wrong direction in the search for the neural correlates of consciousness</strong>&lt;br&gt;Jolien C. Francken</td>
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<td>15:10</td>
<td><strong>Integration and differentiation of neural information dissociates between contents of consciousness</strong>&lt;br&gt;Andrés Canales-Johnson</td>
<td><strong>Can global workspace theory accommodate infant consciousness?</strong>&lt;br&gt;Claudia Passos-Ferreira</td>
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<td>15:30</td>
<td><strong>Diverse theory-based electrophysiological metrics corroborate the presence of consciousness</strong>&lt;br&gt;Federico Raimondo</td>
<td><strong>The Unfolding Argument: Why Recurrent Processing Cannot Explain Consciousness</strong>&lt;br&gt;Adrien Doerig</td>
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<td>15:50</td>
<td><strong>Towards searching the locus of consciousness: an efficient method for searching informational cores</strong>&lt;br&gt;Jun Kitazono</td>
<td><strong>What does a snapshot of perceptual experience look like?</strong>&lt;br&gt;Michael Cohen</td>
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<td>Medium Hall A</td>
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<tr>
<td><strong>UNCONSCIOUS PERCEPTION</strong></td>
<td><strong>TIME AND TEMPORAL PROCESSING</strong></td>
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<tr>
<td>Dis-continuous flash suppression: A novel interocular suppression reveals temporal integration of subliminal linguistic information</td>
<td>Trajectory change blindness: What might it tell us about the temporal character of visual experience?</td>
<td>14:30</td>
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<tr>
<td>Shao-Min (Sean) Hung</td>
<td>Ron Chrisley</td>
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<td>The invisible ventriloquist: audio-visual integration in the absence of perceptual awareness</td>
<td>Quasi-Continuous Unconscious Processing precedes Discrete Conscious Perception</td>
<td>14:50</td>
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<td>Patrycja Delong</td>
<td>Michael H. Herzog</td>
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<td>What can steady-state visual evoked potentials (SSVEP) tell us about the neural correlates of subliminal images?</td>
<td>Time’s Flows, Swirls, Tides, and Currents: The Challenge of Temporal Phenomenology</td>
<td>15:10</td>
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<td>Adélaïde De Heering</td>
<td>Sascha Benjamin Fink</td>
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<td>Keeping it real: Studying unconscious processing of real objects using augmented reality goggles</td>
<td>The experience of anticipation is associated with widespread predictive activation of sensory cortical areas</td>
<td>15:30</td>
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<tr>
<td>Uri Korisky</td>
<td>Dan Lloyd</td>
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<td>No, it can’t: on the limits of unconscious integration</td>
<td>Time without clocks: Changes in content of experience drive time perception</td>
<td>15:50</td>
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<td>Liad Mudrik</td>
<td>Warrick Roseboom</td>
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<tr>
<td>Time</td>
<td>DISORDERS OF CONSCIOUSNESS</td>
<td>BODILY AWARENESS</td>
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<td>17:30</td>
<td>Are changes in time-varying network dynamics truly the result of consciousness or rather due to a general recovery of cognition and non-cognitive processes?</td>
<td>Bodily self-consciousness in macaque monkeys and humans</td>
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<td><strong>Julia Sophia Crone</strong></td>
<td><strong>Liping Wang</strong></td>
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<td>17:50</td>
<td>Neurophysiological fluctuations in patients with disorders of consciousness impact conscious processing</td>
<td>The Sense of Body Ownership and the Body Guard Hypothesis</td>
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<td><strong>Pauline Perez</strong></td>
<td><strong>Yen-Tung Lee</strong></td>
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<td>18:10</td>
<td>Consciousness is indexed by a marker of auditory object perception</td>
<td>Comparing Self-Generated Touch and Self-Generated Movement as Methods to Induce a Full Body Illusion</td>
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<td><strong>Renate Rutiku</strong></td>
<td><strong>Lieke M. J. Swinkels</strong></td>
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<td>18:30</td>
<td>Body Rhythms in Concert? Integrity of Circadian Rhythms is Related to the State of Brain-Injured Patients</td>
<td>Altered bodily self-consciousness and peripersonal space in Autism</td>
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<td><strong>Christine Blume</strong></td>
<td><strong>Cari-lène Mul</strong></td>
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<td>18:50</td>
<td>Predicting neurological outcome for comatose cardiac arrest patients using early EEG reactivity data</td>
<td>Explaining greater susceptibility to the Rubber Hand Illusion in vicarious pain perceivers through Bayesian sensory inference</td>
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<td><strong>Simon H. Del Pin</strong></td>
<td><strong>Vanessa Botan</strong></td>
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<tr>
<td>19:10</td>
<td>Cardio-audio synchronization induces neural surprise response in comatose patients</td>
<td>The Real Hand Illusion: Limb Disownership and the Right-Parietal Body-Network</td>
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<td><strong>Marzia De Lucia</strong></td>
<td><strong>Oliver A. Kannape</strong></td>
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<tr>
<td><strong>UNCONSCIOUS PROCESSING</strong></td>
<td><strong>PERCEPTUAL CONTENT</strong></td>
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<tr>
<td>Explicit and implicit learning of multiple concurrent higher-order sequences in human V1</td>
<td>Isolating neural signatures of conscious speech perception with a &quot;no-report&quot; sine-wave speech paradigm</td>
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<td>David Soto</td>
<td>Michael Pitts</td>
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<td>Reevaluating the role of consciousness in high-level processing</td>
<td>Using decoded fMRI neurofeedback to identify multivariate patterns for illusory color perception</td>
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<td>Maayan Avneon</td>
<td>J.D. Knotts</td>
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<tr>
<td>Unconsciously Reading and Answering Simple Questions</td>
<td>The temporal sequence of physiological changes for visual conscious perception</td>
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<tr>
<td>Alon Goldstein</td>
<td>Sharif Kronemer</td>
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<tr>
<td>Does unconscious working memory really exist?</td>
<td>Topology of visual cortical connections shapes structure of visual space</td>
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<td>Timo Stein</td>
<td>Chen Song</td>
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<td>Prevailing theories of consciousness are challenged by novel cross-modal associations acquired between subliminal stimuli</td>
<td>Sensory information and attentional selection differentiated by first and second neural harmonics during perceptual filling-in</td>
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<tr>
<td>Ryan Scott</td>
<td>Naotsuogu Tsuchiya</td>
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<td>The effect of interoceptive feedback and interoceptive accuracy on unconscious instrumental conditioning</td>
<td>Somatosensory Perception Varies across the Cardiac Cycle</td>
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<td>Lina Skora</td>
<td>Esra Al</td>
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**Schedule**

- 17:30: Unconscious Processing
- 17:50: Reevaluating the role of consciousness in high-level processing
- 18:10: Unconsciously Reading and Answering Simple Questions
- 18:30: Does unconscious working memory really exist?
- 18:50: Prevailing theories of consciousness are challenged by novel cross-modal associations acquired between subliminal stimuli
- 19:10: The effect of interoceptive feedback and interoceptive accuracy on unconscious instrumental conditioning
<table>
<thead>
<tr>
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<th>SLEEP AND DREAMS</th>
<th>PHILOSOPHY AND CONSCIOUSNESS</th>
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<tr>
<td>17:00</td>
<td>Oscillatory Responses to Own Name Persist During Sleep</td>
<td>The Meta-Problem of Consciousness</td>
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<td></td>
<td>Małgorzata Wistowska</td>
<td>David Chalmers</td>
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<tr>
<td>17:20</td>
<td>The Brain Is Standing Sentinel while We Sleep: Continued Evaluation of Emotional Stimuli in the Absence of Consciousness</td>
<td>Towards a Neuroscience-First, Naturalistic Metaphysics of Consciousness</td>
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<td>Manuel Schabus</td>
<td>Cecily Whiteley</td>
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<tr>
<td>17:40</td>
<td>White dreams are made of colours: What studying contentless dreams can teach about the neural basis of dreaming and conscious experiences</td>
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    Action comprehension in disorders of consciousness
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