

# The second meeting of Consciousness Research Network (CoRN 2019)

23-25 January 2019, Okazaki, Japan

## Program

ver. 1.01 (20190119)

Cohosted by

- the National Institute for Physiological Sciences (NIPS)
- Non-linear Neuro-oscillology: Towards Integrative. Understanding of Human Nature, Grant-in-Aid for Scientific Research on Innovative Areas, JSPS
- Chronogenesis: How the Mind Generates Time, Grant-in-Aid for Scientific Research on Innovative Areas, JSPS



### [Version history]

Ver.0.90 (Jan 10): Available from the meeting web site

Ver.1.00 (Jan 15): Updated “how to get to the venue” and added “how to survive in Okazaki”

Ver.1.01 (Jan 19): Added information on wifi and live streaming. They are shown in red.

## [General information]

The second meeting of Consciousness Research Network (CoRN 2019) will be held at the Okazaki Conference Center (Aichi, Japan) in January 23-25, 2019. All the presentation will be given in English.

One of the special features of this meeting is that we have debate sessions and tutorial sessions. The aim of these sessions is to facilitate discussion between scientists and philosophers for future collaborations.

On the debate sessions, we chose two topics.

- Debate session #1 "How to collaborate philosophy and science for consciousness research?"
- Debate session #2 "Theoretical approaches to consciousness research: Is it necessary? Is it possible?"

To encourage the participants to join the discussion, tutorial sessions were used as an introduction to the relevant issues that will be discussed in the debate session.

Previously we had successful debate sessions in a satellite symposium for the Japan Neuroscience Society ("Beyond NCC") held in July 2017. The debate sessions in CoRN2019 can be regarded as a sequel to the symposium.

The CoRN web site: <https://www.conresnet.org/>

Live streaming is also available for the tutorial sessions and the debate sessions.

Go to <https://www.youtube.com/user/pooneil68/live>.

Local Organizing Committee:

- Ryota Kanai (Araya Inc., Japan)
- Ying-Tung Lin (National Yang-Ming University, Taiwan)
- Atsushi Nambu (National Institute for Physiological Sciences, Japan)
- Ryoji Sato (Nagoya University of Foreign Studies)
- Masatoshi Yoshida (National Institute for Physiological Sciences, Japan)

## **[Instruction for participants]**

### **Venue:**

The meeting will be held at the Okazaki Conference Center. For access, go to [how to get to the venue].

The floor map of the venue is available in [Floor map of Okazaki Conference Center].

### **Reception desk:**

The reception desk opens at 12am on January 23.

The desk is at the entrance of the Okazaki Conference Center (See the floor map).

Check your name on the list and take the badge.

Please pay the following fee at the reception desk, according to your choice at registration:

- Get-together on the 1st day + coffee and snack on the 1st-3rd days: 1,500 yen or
- Coffee and snack on the 1st-3rd days: 500 yen

**Prepare cash in Japanese yen.** We don't accept foreign money nor credit cards.

For those who have a reservation of a room at Mishima Lodge, do not forget to pay the fee at the registration desk (For detail, go to [accommodation - Mishima Lodge].)

### **Cloak room:**

The conference center has no cloak room. The organizers will prepare some space for your baggage on the back corner of Ohsumi Conference Hall but do not guarantee safety.

### **Live streaming:**

The organizers are planning of live streaming of the tutorial sessions and debate sessions. The web site is at <https://www.youtube.com/user/pooneil68/live>. Please note that your discussion will also be broadcasted if you join the discussion. It is only for live streaming.

### **Program booklet:**

This program booklet is downloadable from the meeting web site. Visit the web site for the latest version. Please note that the organizers are not going to provide hardcopies of the booklet on site.

### **Wifi:**

Wifi is available at the conference center. A pair of a user name and a password will be provided on site. Enter the information to sign in. For detail, go to the instruction pages at the end of this booklet.

## [How to get to the venue]

1) To arrive at Higashi-Okazaki station (Meitetsu-railway);

- From Tokyo

Get off at Toyohashi station. Change train to the Meitetsu line at Toyohashi Station and get off at Higashi-Okazaki Station (about 20min from Toyohashi to Higashi-Okazaki).

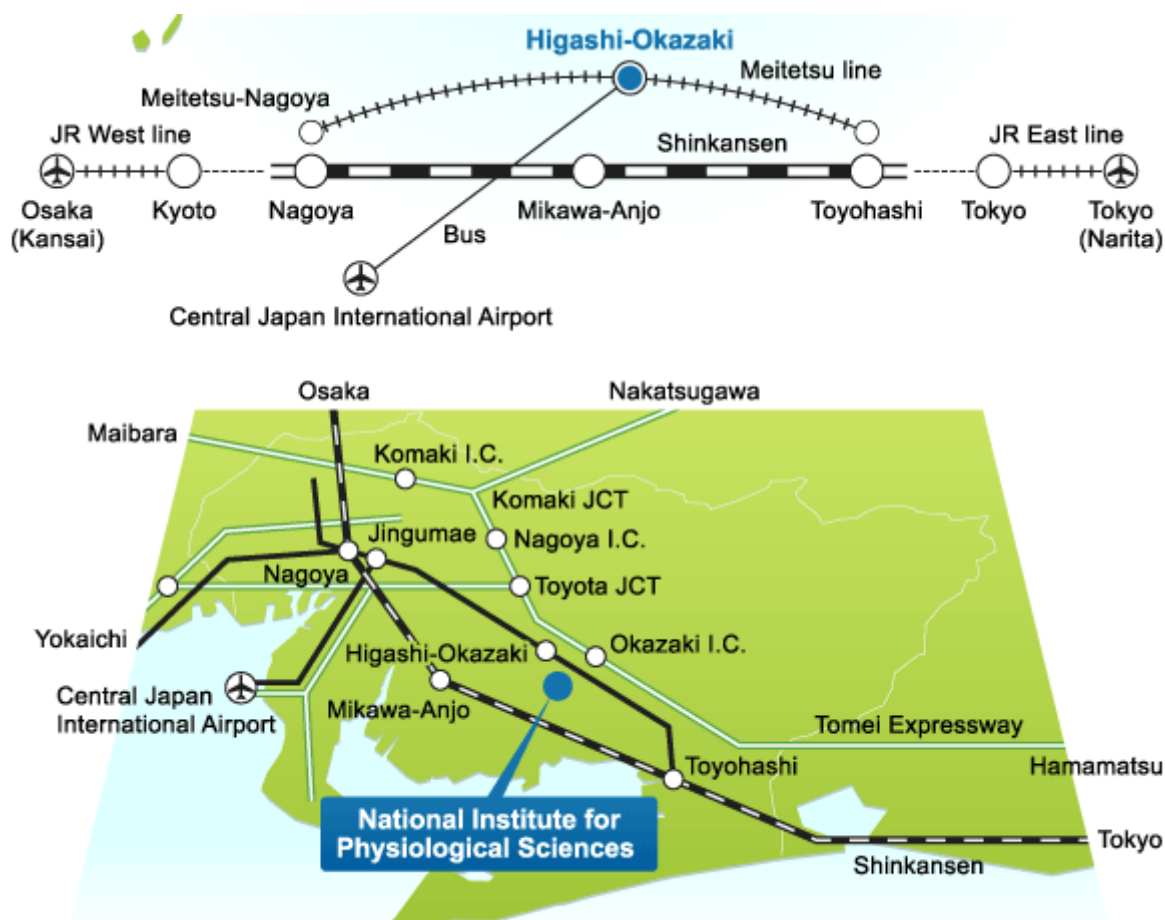
- From Osaka

Get off at Nagoya station. Change train to the Meitetsu line at Meitetsu-Nagoya Station and get off at Higashi-Okazaki Station (about 30min from Meitetsu-Nagoya to Higashi-Okazaki).  
Do not forget to get to the express train, not the local train.

- From Central Japan International Airport

By bus: take the Meitetsu Bus bound for Okazaki and get off at Higashi-Okazaki Bus Station. (65 min, 1600 yen)

By train: take the Meitetsu Airport limited express bound for Toyohashi and get off at Higashi - Okazaki Station. (65 min, 1210 yen)

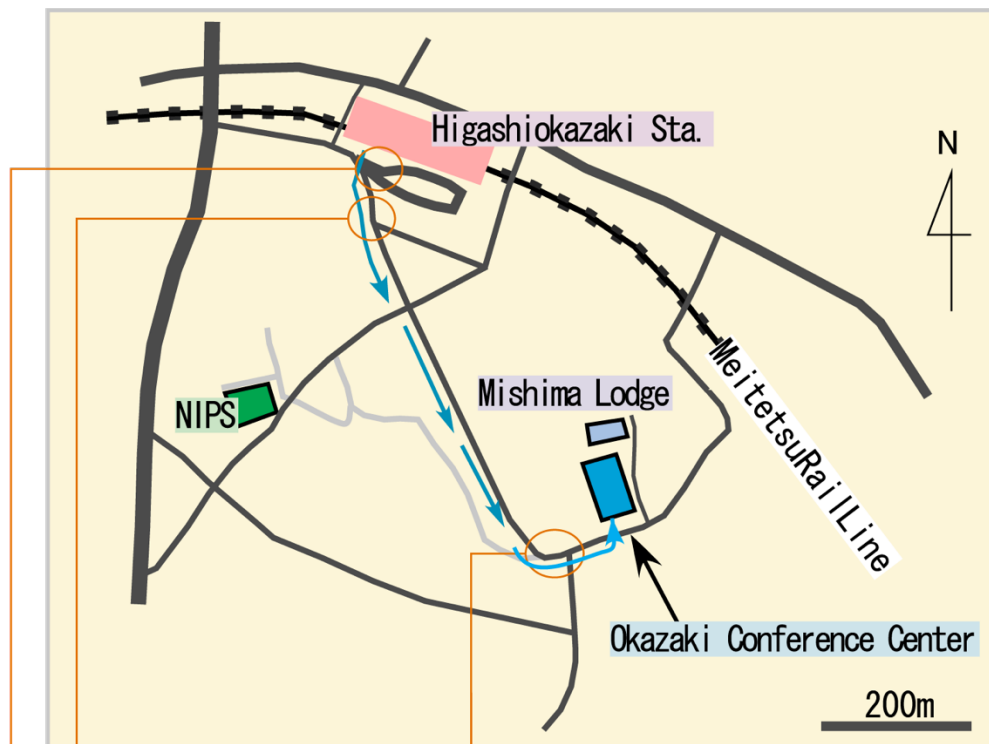


## 2) From Higashi-Okazaki station to the venue (Okazaki Conference Center)

You have three choices to get the venue: by walk, by taxi and by bus.

### • By walk

It is a 10-minute walk (850m) from Higashi-Okazaki Station. It is a gentle uphill slope. See the photos below for important milestones.



- By taxi

Taxi is available in front of the South Exit. Taxis are waiting at the blue circle in the map below. It costs around 650 yen.

- By bus

Bus is available in front of the South Exit. Take the bus bound to “Tatsumigaoka-Junkan” 竜美ヶ丘循環 and get off the first station (“Okazaki koko-mae” 岡崎高校前, red asterisk on the map). Then it is a two-minute walk to the Okazaki Conference Center. The bus runs every 20 minutes. It costs around 130 yen.



TAXI

Get ride on the line **26** bus at terminal **11**



Get off at 1st bus stop “okazaki koukou mae” then go back and turn right at the signal

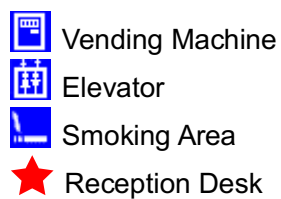
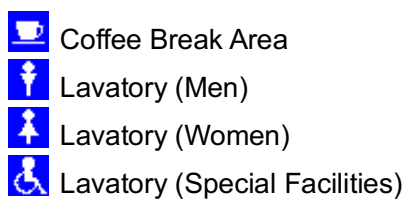
## [Floor map of the venue]

The venue is the Okazaki Conference Center.

For talk, go to Ohsumi Conference Hall.

For coffee break, go to Foyer b.

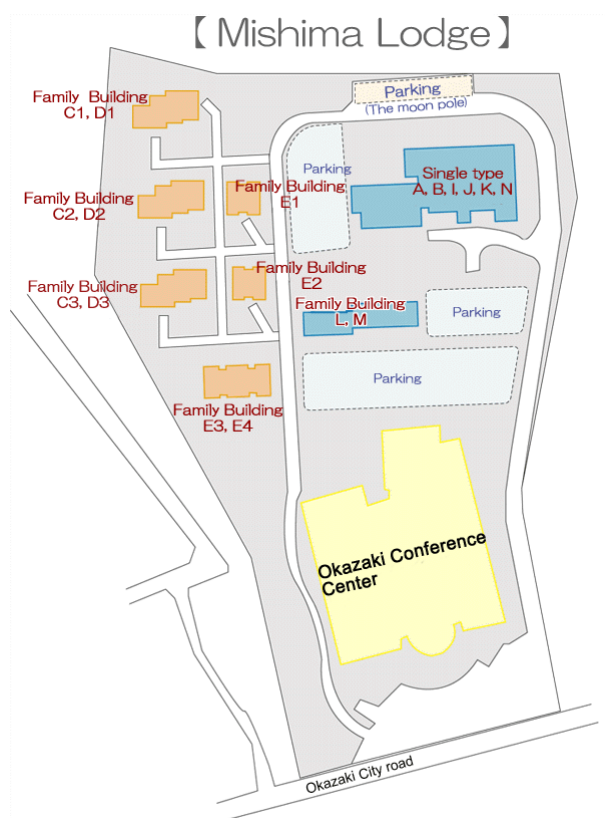
For poster and get-together, go to Foyer b.



## [Accommodation - Mishima Lodge]

For those who reserved a room for Mishima Lodge:

Please pay the accommodation fee (2,500 yen per night) at the reception desk. You will receive the room key and receipt. If you reserved a room for January 22, you have to pick up your key at the Institute. The secretary will contact you for detail.



## [Accommodation - Other Hotels]

A hotel list is available (written in Japanese): <http://www.nips.ac.jp/profile/access/stay.html>

For English-speaking persons, we recommend two hotels that have web sites written in English.

\* Okazaki New Grand Hotel: [http://www.newgrand.yad.jp/english/facilities\\_information/index.html](http://www.newgrand.yad.jp/english/facilities_information/index.html)

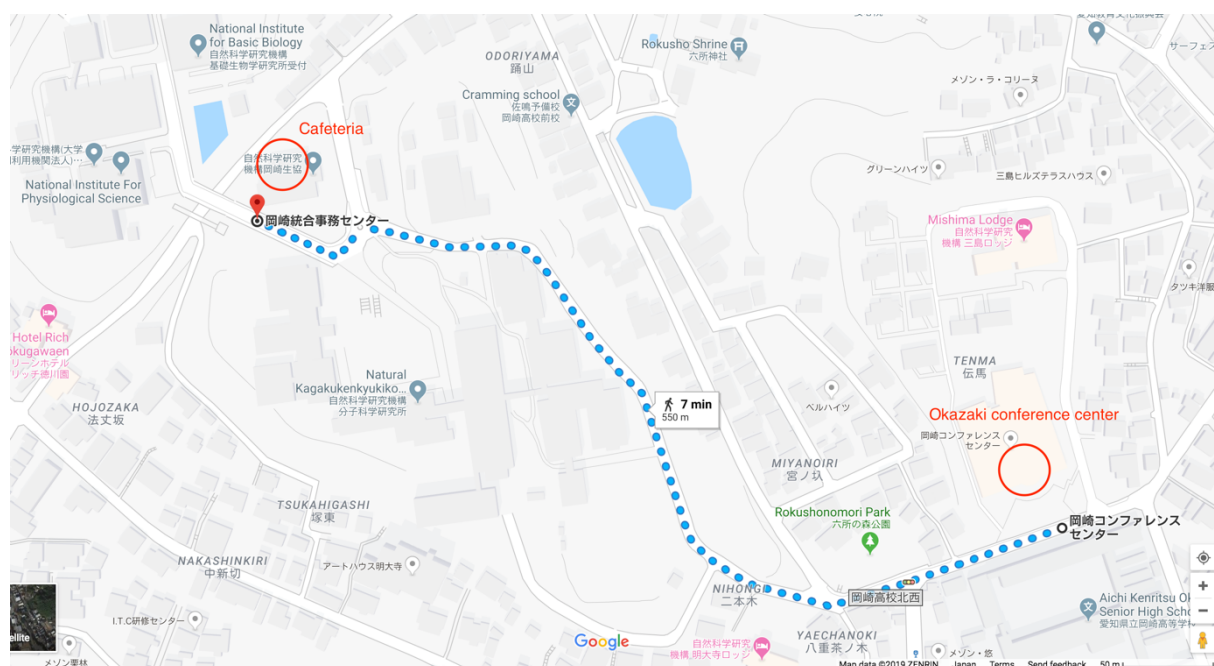
\* Okazaki Central Hotel: <http://www.okazaki-centralhotel.com/english/index.htm>

Another choice is to find a hotel in Nagoya. Check <http://www.mwt.co.jp/neurosci/en/>

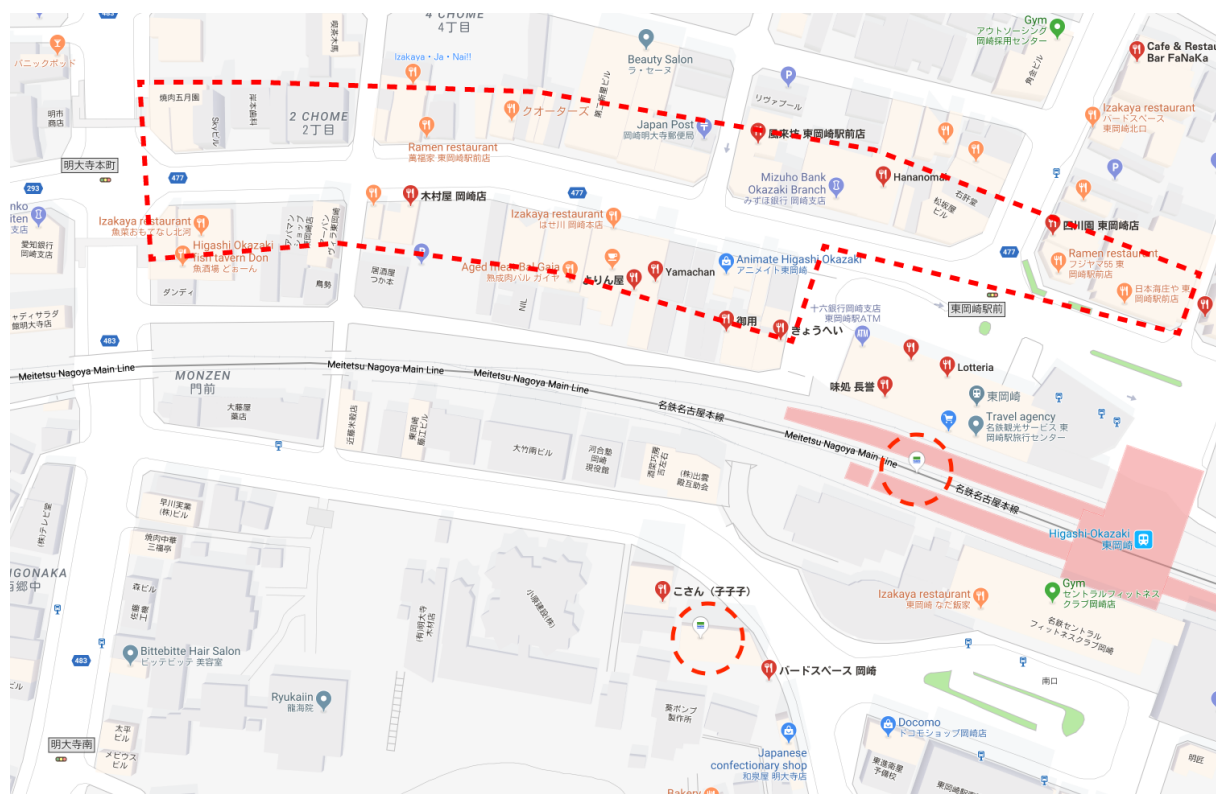
## [How to survive in Okazaki]

Here are some important notices for participants.

- If you come from Meitetsu-Nagoya station of the Meitetsu line, be careful not to take a wrong train. The correct ones are express trains bound to Toyohashi (豊橋), Toyokawa-inari (豊川稲荷) or Ina (伊奈) stations. If you took a wrong train which leaves from the same platform, you will be taken to the tip of Chita peninsula. Go to the url below for detail.  
[https://www.meitetsu.co.jp/train/station\\_info/rosenzu.pdf](https://www.meitetsu.co.jp/train/station_info/rosenzu.pdf)
- The nearest station to the venue is Higashi-Okazaki station of the Meitetsu Line (8min by walk). Be careful not to confuse with Okazaki station of the JR (Japanese Railway) line. Okazaki station of the JR line is 3.5km away from the venue (40min by walk).
- There are no restaurants near the venue. For lunch, my recommendation is to go to a cafeteria in the institute. It is 550m away from the venue (7 min by walk). It is open from 11:45am to 2pm. Only Japanese yen is accepted.



- Another choice for restaurants (for lunch and dinner) is to go to Higashi-Okazaki station. On the north to the station (shown in red dotted lines in the figure below), you will find a lot of restaurants and bars.



- In the Get-together on the day 1, we will provide light meal, snacks and some beer. You might want to go for dinner after that.
- For those who reserved a room at Mishima Lodge: Mishima Lodge is not a hotel but a facility for visiting researchers to the institute. It has a minimal service; nobody in the reception desk but a key box; no room services; no breakfast. One of my recommendation is to buy some food for your breakfast before you get to the Lodge. Convenience stores are available in and near the Higashi-Okazaki station (red dotted circles).

**[Instruction for Speakers]**

Bring your laptop. If you cannot, a windows PC is available. In that case, bring your USB memory containing your PowerPoint file.

Setup your PC before your session begin.

The presentation time is 30 min, including your talk (25 min) and questions (5 min).

**[Instruction for Poster Presenters]**

The poster session will be held at Foyer 2 (see the floor map).

The core time is 4:30pm-5:30pm of January 23.

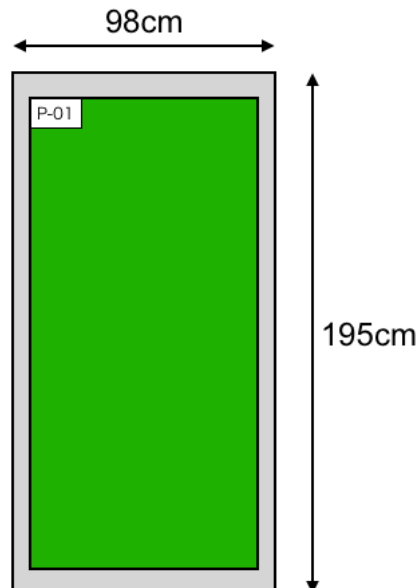
The poster session continues until the end of get-together (6:30pm).

Put up your poster after 12am and before the poster session.

Remove your poster before the end of the meeting. Otherwise, it will be discarded.

Put your poster on the board with your poster number. Pushpins are available.

The size of poster boards is 98 cm in width and 195 cm in height.



**[Program]****Day 1 (Wed, Jan 23, 2019, at Ohsumi Conference Hall)**

- 12:00 Reception desk opens
- 13:00-13:05 Opening remarks by Ryota Kanai (Araya Co., Japan)
- 13:05-15:05 Talk session #1, chaired by Tony Cheng (University College London, UK)
- 13:05-13:35 Talk #1  
**"Information processing in altered states of consciousness"**  
 Po-Jang (Brown) Hsieh (Duke-NUS Medical School, Singapore)
- 13:35-14:05 Talk #2  
**"Four meta-methods for the study of qualia, and a realism about mental representation"**  
 Lok-Chi Chan (National Taiwan University, Taiwan)
- 14:05-14:35 Talk #3  
**"The meta and hard problems of consciousness"**  
 Graham Peebles (Osaka University, Japan)
- 14:35-15:05 Talk #4  
**"Field and Observer Perspectives in Episodic Simulation and Self-Consciousness"**  
 Ying-Tung Lin (National Yang-Ming University, Taiwan)
- 15:05-15:30 Coffee break
- 15:30-16:30 Plenary talk  
**"The here and now in the default mode network"**  
 Shigeru Kitazawa (Osaka University, Japan)"
- 16:30-17:30 Poster session (at Foyer b)
- 17:30-18:30 Get-together (at Foyer b)

**Day2 (Thu, Jan 24, 2019, at Ohsumi Conference Hall)**

- 9:30-11:30 Tutorial session #1  
**"Tutorial for scientists on the philosophical problems of consciousness"**  
 John O'Dea (Univ Tokyo, Japan)
- 11:30-13:30 Lunch and poster
- 13:30-15:00 Debate session #1  
**"How to collaborate philosophy and science for consciousness research?"**  
 Chaired by Lu Teng (NYU Shanghai, China)  
 Panelist #1 **Title TBA**  
 Shogo Tanaka (Tokai Univ, Japan)  
 Panelist #2 **Title TBA**  
 Hakwan Lau (UCLA, USA, University of Hong Kong, HK)
- 15:00-15:30 Coffee break

- 15:30-17:00 Talk session #2, chaired by Po-Jang (Brown) Hsieh (Duke-NUS Medical School, Singapore)
- 15:30-16:00 Talk #5  
**"Cracking neural consciousness by machine consciousness"**  
 Masataka Watanabe (Max Planck Institute for Biological Cybernetics, Germany)
- 16:00-16:30 Talk #6  
**"Regulation of cortical activity and arousal by the matrix cells of the thalamus"**  
 Sakiko Honjoh (University of Tsukuba, Japan)
- 16:30-17:00 Talk #7  
**"Socio-historical factors limiting progress in consciousness science"**  
 Hakwan Lau (UCLA, USA, University of Hong Kong, HK)
- 17:00-17:30 Business meeting (for organizers)

### Day3 (Fri, Jan 25, 2019, at Ohsumi Conference Hall)

- 9:30-11:30 Tutorial session #2  
**"How to build a mathematical theory of consciousness - from the viewpoint of Integrated Information Theory"**  
 Masafumi Oizumi (Araya Co., Japan)
- 11:30-13:30 Lunch and poster
- 13:30-15:00 Debate session #2  
**"Theoretical approaches to consciousness research: Is it necessary? Is it possible?"**  
 Chaired by Ryoji Sato (Nagoya University of Foreign Studies, Japan)  
 Panelist #1 **"On the very idea of an axiom of consciousness"**  
 Kengo Miyazono (Hiroshima Univ, Japan)  
 Panelist #2 **"What a theory of consciousness has to be like?"**  
 Ryota Kanai (Araya Co., Japan)
- 15:00-15:25 Coffee break
- 15:25-16:55 Talk session #3, chaired by Ying-Tung Lin (National Yang-Ming University, Taiwan)
- 15:25-15:55 Talk #8  
**"From Ontology to Mediology: Toward a new understanding of consciousness"**  
 Shigeru Taguchi (Hokkaido University, Japan)
- 15:55-16:25 Talk #9  
**"Is Perceptual Confidence Genuinely Perceptual?"**  
 Tony Cheng (University College London, UK)
- 16:25-16:55 Talk #10  
**"The Epistemic Insignificance of the Feeling of Presence"**  
 Lu Teng (NYU Shanghai, China)
- 16:55-17:00 Closing remarks by Masatoshi Yoshida (National Institute for Physiological Sciences, Japan)

**[Poster List]**

- P-01 **Dual Model as a Novel Approach to Understanding Phenomenal Consciousness**  
Michal Polák (Department of Philosophy, University of West Bohemia, Pilsen, Czech Republic)
- P-02 **The sufficiency of neural mechanisms of consciousness**  
Matthew Owen (Gonzaga University)
- P-03 **The Sense of Double-body Ownership and the Bodyguard Hypothesis**  
Yen-Tung Lee[1] (1. Department of Philosophy, National Taiwan University)
- P-04 **Language and Spatial Encoding: A Solution to the Under-determination Problem**  
Elizabeth Lasater-Guttmann (1. University of Cambridge; 2. Harvard University)
- P-05 **Gerrymandering 'Structure'**  
Huang, Alice (New York University, Abu Dhabi)
- P-06 **Subjective visibility and memory precision go hand in hand in a task which does not constrain access**  
Zuzanna Skóra[1], Simon Hviid Del Pin[1,2], Kinga Ciupińska[1], Michał Wierchoń[1] (1. Consciousness Lab, Institute of Psychology, Jagiellonian University, Poland; 2. Cognitive Neuroscience Research Unit, CFIN, Aarhus University, Denmark)
- P-07 **Possible conceptual and empirical contributions of EvoDevo to consciousness studies**  
Daichi Suzuki[1] (1. ExCELLS, NINS)
- P-08 **Shapes, but not colors, are unconsciously associated with emotions**  
Yenju Feng[1], Po Jang Hsieh[2] (1. NUS Graduate School for Integrative Sciences and Engineering (NGS), 2. Duke-NUS)
- P-09 **Fluctuating brain responses to commands in patient with disorders of consciousness**  
Zixin Yong[1], Angela An Qi See[2], Julian Xinguang Han[2], Kai Rui Wan[2], Chun Siong Soon[1], Nicholas Kon Kam King[2], Po-Jang Hsieh[1] (1. Duke-NUS Medical School, Singapore; 2. National Neuroscience Institute, Singapore)
- P-10 **The consciousness prior and its neural implementations**  
Junpei Zhong [1], Tetsuya Ogata[1,2] (1. National Institute of Advanced Industrial Science and Technology (AIST), Tokyo, Japan; 2. Waseda University, Tokyo, Japan)
- P-11 **Role of gain-control and neural correlations in efficient stimulus coding**  
S. Amin Moosavi[1], Hideaki Shimazaki[1] (1. Kyoto University)


- P-12 **Thermodynamic analysis of neural populations by the state-space Ising model**  
Magalie Tatischeff[1], Jimmy Gaudreault[2], Christian Donner[3], Hideaki Shimazaki[4] (1. University of British Columbia; 2. Polytechnique Montréal; 3. Technische Universität Berlin; 4. Kyoto University)
- P-13 **Integrated Information Predicts the Performance of Neuroanatomical Models of the Nematode *C. elegans***  
Muneki Ikeda[1], Eduardo J. Izquierdo[2], Masafumi Oizumi[3,4], Jun Kitazono[3,5], and Ikue Mori[1,6] (1. Group of Molecular Neurobiology, Division of Biological Science, Graduate School of Science, Nagoya University, Nagoya, Aichi, Japan; 2. Cognitive Science Program, Indiana University, Bloomington, Indiana, United States of America; 3. Araya Inc., Minato-ku, Tokyo, Japan; 4. RIKEN Brain Science Institute, Wako, Saitama, Japan; 5. Graduate School of Engineering, Kobe University, Kobe, Hyogo, Japan; 6. Neuroscience Institute, Graduate School of Science, Nagoya University, Nagoya, Aichi, Japan)
- P-14 **Synchronized Local Field Potentials Associated with Tinnitus in the Rat Auditory Cortex**  
Naoki Wake[1], Tomoyo I Shiramatsu[1], Hirokazu Takahashi[1] (The University of Tokyo)
- P-15 **Efficient search of informational cores in probabilistic systems and graphs**  
Jun Kitazono[1,2], Ryota Kanai[1], Masafumi Oizumi[1,3] (1. Araya, Inc.; 2. Graduate School of Engineering, Kobe University; 3. RIKEN Center for Brain Science)
- P-16 **A moment of conscious experience is very informative**  
Nao Tsuchiya [1], Jasmine Walter[1], Alon Loeffler[1], Zhao Koh [1], Shinji Nishimoto[2], Jeroen van Boxtel[1] (1. Monash University 2. Osaka University)
- P-17 **A neural coarse graining theory of consciousness**  
Acer Y.C. Chang[1], Martin Biehl[1], Ryota Kanai[1] (ARAYA, Inc., Tokyo, Japan)

# How to use Wireless LAN at OCC(for visitors)

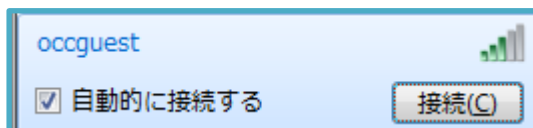
Please see the ID information offered by the organizer.

ゲスト氏名(Guest Name)	情報サービス係
所属(電話番号)(Telephone)	7192.
使用場所(Service Place)	OCC
開始時刻(Start Time)	2016-11-17 00:00:00
終了時刻(End Time)	2016-11-23 23:59:59
アカウント名(UserName)	
パスワード(Password)	

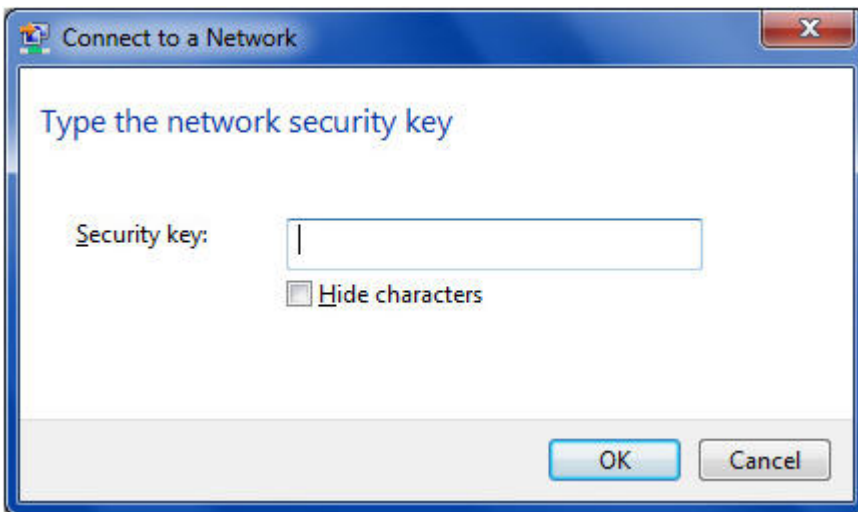
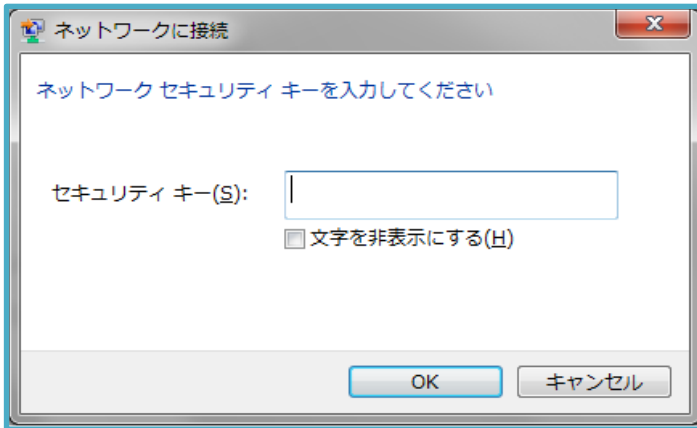
## ★Step 1 (Connection)

1) Click the icon  to see the connection of wireless network.

In the list of networks, choose **OCCguest** and check connect automatically and then click **Connect**.



2) Please type  
**1znm@Gn3b6=00123Yu**  
for security key and click **OK**.



★Step 2 (Certification)

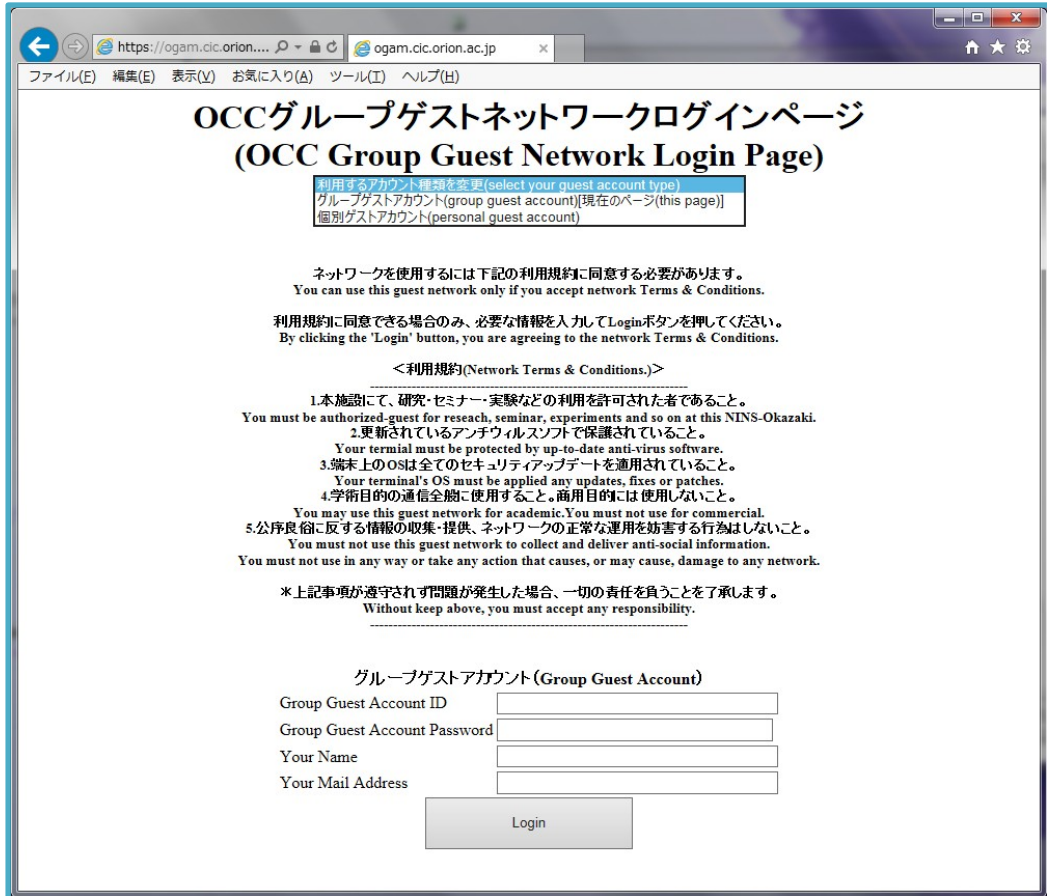
1) After starting browser that has been connected to network, you will see the following page( An alert against certificate may show, in this case, please click **continue** or **open page** ) ;

Account: Choose **Personal Guest Account** or **Group Guest Account**.

Personal Guest Account: ID and Pass word

Group Guest Account: Id, Pass word, your name and your mail address

And **Login**



グループゲストアカウントの場合 :

