



THE UNIVERSITY OF ARIZONA

Center for  
Consciousness Studies

# THE SCIENCE OF CONSCIOUSNESS

**April 18–22, 2022**

Hybrid Format – Remote Online and/or Live In-Person  
Loews Ventana Canyon Resort • Tucson, AZ

## **The Science of Consciousness**

**Loews Ventana Canyon Resort and Online**

**April 18-22, 2022**

**Hybrid Format: In-Person and Online/Remote, Live-Streamed**

The Science of Consciousness conferences have been held in Tucson, Arizona every two years, alternating with TSC conferences elsewhere since 1994. Due to the pandemic, the 2020 and 2021 conferences were held online. The 29th annual TSC conference, the 29th annual TSC conference will be held **April 18-22, 2022** in Hybrid Format, with presentations and audience both In-Person, and Online/Remote. The In-Person sessions and Online/Remote headquarters will be at Loews Ventana Canyon Resort.

### **MONDAY, April 18, 2022 - WORKSHOPS (SEE BELOW)**

### **TUESDAY, April 19 – Friday, April 22 - PLENARY AND KEYNOTE SESSIONS**

(3 sessions per day, Tuesday, April 19 through Friday, April 22). Live sessions will be held in the **Kiva Ballroom at Loews Ventana Canyon Resort**, and all sessions will be live-streamed for remote registrants.

### **KEYNOTE - PLENARY Sessions, Bios, Photos, Abstracts**

### **TUESDAY, April 19, 2022**

#### **Plenary 1**

**8:30 am - 10:40 am**

#### **SLEEP, WAKEFULNESS & ANESTHESIA**

**Giancarlo Vanini, University of Michigan**

**Matthew Larkum, Humboldt University**

**Alex Proekt, University of Pennsylvania**

#### **KEYNOTE 1 - Plenary 2**

**11:10 am - 12:30 pm**

#### **BRAIN & CONSCIOUSNESS**

**Christof Koch, Allen Institute for Brain Science**

#### **Plenary 3**

**2:00 pm - 4:10 pm**

#### **BRAIN CONNECTIVITY**

**Jean-Rémi King, CNRS, Ecole Normale Supérieure de Lyon**

**Zirui Huang, University of Michigan**

**Anirban Bandyopadhyay, National Institute for Materials Science, NIMS, Tsukuba, Japan**

**WEDNESDAY, April 20, 2022**

Plenary 4

8:30 am - 10:40 am

**ALTERED STATES OF CONSCIOUSNESS**

Emma Huels, University of Michigan

Charlotte Martial, University of Liège

Elizabeth Krasnoff, California Institute for Human Science

**KEYNOTE 2 - Plenary 5**

11:10 am - 12:30 pm

**PSYCHEDELICS**

Robin Carhart-Harris, University of California, San Francisco

Plenary 6

2:00 pm - 4:10 pm

**PSYCHEDELIC MECHANISMS**

George Mashour, University of Michigan

Alex C Kwan, Yale University

Katrin Preller, Univ. of Zurich | Yale University

**THURSDAY, April 21, 2022**

Plenary 7

8:30 am - 10:40 am

**ORIGINS OF LIFE**

Dante Lauro, University of Arizona

Sara Walker, Arizona State University

Steen Rasmussen, University of Southern Denmark

**KEYNOTE 3 - Plenary 8**

11:10 am - 12:30 pm

**ASTROBIOLOGY & ASTROCONSCIOUSNESS**

Avi Loeb, Harvard University

Plenary 9

2:00 pm - 4:10 pm

**TIME & CONSCIOUSNESS**

Daniel Sheehan, University of San Diego

Paul Davies, Arizona State University

Sir Roger Penrose, Oxford University

**FRIDAY - April 22, 2022**

Plenary 10

8:30 am - 10:40 am

**THEORIES OF CONSCIOUSNESS**

Biyu J. He, New York University, Langone

Yuri B. Saalman, University of Wisconsin

Lucia Melloni, Max Planck Institute, Frankfurt

**KEYNOTE 4 - Plenary 11**

11:10 am - 12:30 pm

**REALITY+**

David Chalmers, New York University

Plenary 12

2:00 pm - 4:10 pm

**QUANTUM NEUROSCIENCE**

Hartmut Neven, Google Quantum AI

Panelists from 'Is the brain (in part) a quantum computer?'

January 31-February 1, Google Quantum AI Campus, Santa Barbara

**MONDAY, April 18, 2022**

**WORKSHOPS - Workshop-Panels Descriptions, Speaker Bios**

(Kiva, Grand Ballroom A/B/C)

**Session 1 - MONDAY MORNING WORKSHOPS**

9:00 am - 12:30 pm

**PROGRESS ON DUAL-ASPECT THINKING**

Harald Atmanspacher, The Collegium Helveticum, ETH, Zurich

Paavo Pyykkänen, University of Helsinki | University of Skövde

Dean Rickles, University of Sydney

Robert Prentner, University of Munich

**TESTING ORCH OR: UPDATE ON 'TWCF' PROJECT**

Bruce MacIver, Stanford University

Jack Tuszynski, University of Alberta/Politecnico di Torino

Aarat Kalra, Princeton University

Greg Scholes, Princeton University

Aristide Dogariu, University of Central Florida

Travis Craddock, Nova Southeastern University

**BRAIN MODULATION WITH TRANSCRANIAL ULTRASOUND**

Jay Sanguinetti, University of Arizona

Sasha Bystritsky, The University of California, Los Angeles

Seung-Shick Yoo, Harvard University

Martin Monti, The University of California, Los Angeles

**QUANTUM MECHANICS AND CONSCIOUSNESS**

Justin Riddle, University of North Carolina

Johannes Kleiner, Ludwig Maximilian University of Munich

Kelvin J. McQueen, Chapman University

**Session 2 -MONDAY AFTERNOON WORKSHOPS**

2:00 pm - 6:00 pm

**EMBEDDED INTELLIGENCE**

Bill Mensch, Western Design Center

Dante Lauro, University of Arizona

Stuart Hameroff, University of Arizona

Ted Humphrey, Arizona State University

Andrew Maynard, Arizona State University

**PLANTS AND CONSCIOUSNESS**

M. Bruce MacIver, Stanford University

Deepak Chopra, Chopra Global

Rainish Khanna, Ph.D., I-Cultiver

**CONSCIOUSNESS AND NON-LOCALITY**

Stephan A. Schwartz, Saybrook University

Julia Mossbridge, University of San Diego, IONS, TILT

Dean Radin, Institute of Noetic Science (IONS)

**THE SCIENCE OF CONTEMPLATIVE EXPERIENCE**

Matthew Sacchet, Harvard University

Daniel Ingram, Emergent Phenomenology Research Consortium, EPRC

Julietta Galante, Cambridge University

Jay Sanguinetti, University of Arizona

## Workshops cont.

### Session 3 - MONDAY EVENING WORKSHOP

7:00 - 10:00 pm

#### NEUROSPIRITUALITY

Michael Ferguson, Harvard University

Jenae Nelson, Brigham Young University

David Yaden, Johns Hopkins University

Rick Strassman, University of New Mexico

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#### Links:

[Eventbrite - Registration](#) In-person and Remote

[LOEWS Ventana Canyon Resort](#)

Early group rate

#### Presenters (bios, photos, abstracts/session descriptions)

[Keynote](#)

[Plenary](#)

[Workshops/Panels](#)

#### To be announced:

*Concurrents*

*Posters*

*Exhibitors*

*Art-Tech-Health Exhibits*

TSC conferences - Since 1994

Questions: [center@email.arizona.edu](mailto:center@email.arizona.edu)

Website: [www.consciousness.arizona.edu](http://www.consciousness.arizona.edu)

#### PROGRAM COMMITTEE

##### Co-Chairs:

Stuart Hameroff U Arizona

George Mashour, U Michigan

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