TOWARD A SCIENCE OF CONSCIOUSNESS 2011  MAY 2-8, 2011  
AULA MAGNA HALL, STOCKHOLM UNIVERSITY, SWEDEN

For Immediate Release  
Second Announcement and Program Update

Toward a Science of Consciousness:  
Brain, Mind and Reality  
May 3-7, 2011  
Aula Magna Hall, Stockholm University  
Stockholm, Sweden

Sponsored by the Center for Consciousness Studies  
The University of Arizona, Tucson, Arizona  
and Mind Event, AB  
www.consciousness.arizona.edu

Toward a Science of Consciousness (TSC) is an annual interdisciplinary conference on all 
Aspects of the fundamental question of how the brain produces conscious experience, a 
question addressing who we are, the nature of reality and our place in the universe.  
TSC rigorously covers neuroscience, cognitive science, psychology, philosophy,  
neurobiology, medicine, quantum physics, cosmology, experiential and spiritual approaches  
to the understanding of conscious awareness.

Since 1994, TSC has alternated between Tucson, Arizona and various locations around the 
world. This year, the 18th Toward a Science of Consciousness: Brain, Mind and Reality, will  
take place May 3-7, 2011 at Aula Magna Hall, Stockholm University, Stockholm, Sweden  
with pre- and post-conference workshops May 1,2 and 7.

An estimated 500 scientists, philosophers, psychologists, experientialists, artists, students  
and others from more than 60 countries will participate in hundreds of presentations included  
in 14 Plenary or Keynote Sessions, 40 Concurrent Talk Sessions, 2 Poster Sessions,  
Art-Tech Demos, social events and special evening performances. Details regarding Social  
Events will be posted soon.

Abstracts for all presentations will be posted at www.consciousness.arizona.edu and published  
in a conference book prepared by the Journal of Consciousness Studies.

Plenary Program Overview

Plenary and Keynote Sessions will run Tuesday, May 3 through Saturday, May 7 in the  
Aula Magna Hall, 8:30 am to 4:10 pm, with breaks. Concurrent talks, Poster Sessions,  
Art Exhibits and Social Events will take place late afternoon and evenings.

Featured Plenary and Keynote Speakers include esteemed mathematical physicist and
Author Sir Roger Penrose, Nobel Laureate Luc Montagnier, and author, physician and Vedic scholar Deepak Chopra. On May 2, Deepak Chopra will lead a full day workshop, Consciousness: The Ultimate Reality with a special session on Neuroscience of Enlightenment followed by an early evening public forum at Aula Magna Hall entitled, Are Science and Spirituality Incompatible? (Speakers TBA).

In addition to major contributions to cosmology, physics reality and geometry, Sir Roger Penrose brought consciousness in a meaningful way into physics, co-developed a controversial quantum theory of consciousness, and recently proposed a cyclical, serial universe. Dr. Luc Montagnier won the 2008 Nobel Prize in Medicine for showing that AIDS is caused by HIV virus, and has of late reported controversial evidence for non-local effects in DNA. Dr. Deepak Chopra has applied ancient Vedic teachings to modern medicine, cosmology, consciousness and spirituality, and written 60 books including War of the Worldviews with Leonard Mlodinow (also a plenary speaker, and co-author of Grand Design with Stephen Hawking).

A full listing of plenary sessions themes, speakers and brief descriptions are below. The Plenary, Concurrent and Poster session presenters and abstracts will be posted on www.consciousness.arizona.edu. Pre-Conference workshops begin on Sunday, May 1 with a full-day Synesthesia symposium. Also on May 1 will be 2 half-day workshops on Neural Correlates and Depersonalization; 3 workshops are scheduled for May 7 after the close of the Plenary program: Altered States, Quantum Biology and an Experiential Workshop on binaural beat audio-guidance technology.

A full listing of Plenary, Concurrent Sessions, Poster Session Participants, Art-Tech Exhibitors and Workshops can be found at:

http://consciousness.arizona.edu/TSC2011PlenaryKeynotesProgram.htm
http://consciousness.arizona.edu/TSC2011ConcurrentSessions.htm
http://consciousness.arizona.edu/TSC2011Posters.htm
http://consciousness.arizona.edu/TSC2011ArtTechDemos.htm
http://consciousness.arizona.edu/TSC2011WorkshopsALL.htm
http://consciousness.arizona.edu/TSC2011deepakworkshop.htm

For Registration, Lodging and other information, please go to www.consciousness.arizona.edu http://consciousness.arizona.edu/TSC2011Hotels.htm

We look forward to seeing you in Stockholm!
Best wishes on behalf of the entire Program Committee.

Vi ser fram emot att träffa dig i Stockholm!
Hälsningar från oss i konferenskommittén

Stuart Hameroff
Christer Perfjell
Abi Behar Montefiore

PLENARY PROGRAM
Aula Magna Hall

Tuesday, May 3, 2011

Plenary 1, 8:30 am to 10:40 am
Brain Electromagnetic Fields and Consciousness
McCormick D, Yale, Endogenous electric fields guide cortical network activity
Pockett S, Auckland, Electromagnetic field theory of consciousness: The shape of conscious fields
McFadden J, Surrey, The continuous electromagnetic information (CEMI) field theory of consciousness

Is the brain's complex electromagnetic field itself the essence of consciousness?
Plenary 2, 11:10 am to 12:30 pm
Time and Consciousness I
Atmanspacher H, Freiberg, Temporal nonlocality in bistable perception
Gonzalez-Andino S, Geneva, Backward time referral in the amygdala of primates

Since the famous Libet experiments, backward time effects have been repeatedly detected in the brain.

Plenary 3, 2:00 pm to 4:10 pm
Consciousness and Reality
Keynote, Chopra D, Chopra Foundation, Vedic approaches to consciousness and reality
Mlodinow L, Pasadena, Grand Design
Zizzi P, Padua, Consciousness in the early universe

Is consciousness intrinsic to the universe, or an after-the-fact illusion?

Wednesday, May 4

Plenary 4, 8:30 am to 10:40 am
Transcranial Therapies
Wassermann E, NIH, Transcranial stimulation and consciousness
Snyder A, Sydney, Accessing information normally beyond conscious awareness by non-invasive brain stimulation
Tyler WJ, Arizona State, Transcranial ultrasound therapy for brain injury

New non-invasive transcranial therapies hold great promise for mind/brain disorders

Plenary 5, 11:10 am to 12:30 pm
Neural correlates of consciousness I
Malach R, Weizmann, Local neuronal ignitions and the emergence of perceptual awareness
Plenz D, NIH, Neuronal avalanches, coherence potentials, and cooperativity: Dynamical aspects that define mammalian cortex

Highly coherent neuronal brain activities correlate with consciousness.

Plenary 6, 2:00 pm to 4:10 pm
Consciousness and Reality II
Kafatos M, Chapman, Consciousness and the non-local universe
Kallio-Tammimem K, Helsinki, Quantum physics and Eastern philosophy
Pylkkanen P, Helsinki, Bohmian view of consciousness and reality

Consciousness, physics and metaphysics

Thursday, May 5

Plenary 7, 8:30 am to 10:40 am
Varieties of Religious Experience
Beauregard M, Montreal, Neuroscience of transcendent experiences
Moreira-Almeida A, Juiz De Fora, Differential diagnosis between spiritual experiences and mental disorders
Roberto, Padinho Paulo, Rio de Janeiro, Sacred plants of Amazonia

What exactly is a religious experience?

Plenary 8, 11:10 am to 12:30 pm
Time and consciousness II
Bierman D, Amsterdam, Presentiment
Cerf M, NYU, Time effects in human cortical neuronal firings

Does information go backward-in-time in the brain?
Plenary 9, 2:00 pm to 4:10 pm
Quantum Biology I
Keynote, Luc Montagnier, Nobel Laureate, Pasteur Institute, The transfer of biological information through electromagnetic waves and matter
Vitiello G, Salerno, DNA: On the wave of coherence
Bernroider G and Summerhammer J, Salzburg, Quantum properties in ion channel proteins

Do nonlocal quantum effects mediate function in DNA and ion channels?

Thursday Evening
Conference Dinner Cruise

Friday, May 6

Plenary 10, 8:30 am to 10:40 am
Microtubules
Tuszynski JA, Edmonton, Information processing within dendritic cytoskeleton
Bandyopadhyay A, NIMS, Tsukuba, Direct experimental evidence for quantum states in microtubules and topological invariance
Tanzi R, Harvard, Zinc link between aBeta and microtubule instability in Alzheimer's disease

Possibilities for microtubule computing and quantum computing, and their role in Alzheimer's Disease

Plenary 11, 11:10 am to 12:30 pm
Keynote, Sir Roger Penrose, Oxford

Consciousness in the universe

Plenary 12, 2:00 pm to 4:10 pm
Neural correlates of consciousness II
Hesslow G, Lund, The inner world as simulated interaction with the environment
Ehrsson H, Karolinska, How we come to experience that we own our body: The cognitive neuroscience of body self-perception
Ullen F, Karolinska, The psychological flow experience: From phenomenology to biological correlates

At home in the brain with an all-Swedish session

Saturday, May 7

Plenary 13, 8:30 am to 10:40 am
Anesthesia and consciousness
Hudetz A, Milwaukee, Anesthetics and gamma synchrony
Franks N, London, Molecular actions of anesthetics
Hameroff S, Tucson, Meyer-Overton meets quantum physics

How do anesthetic gases selectively and reversibly erase consciousness?

Plenary 14, 11:10 am to 1:20 pm
End of life brain activity
Chawla L, GWU, Surges of electroencephalogram activity at the time of death
Van Lommel P, Amsterdam, Near death experiences: Clinical studies
Fenwick P, London, Death and the loosening of consciousness

Does highly coherent brain activity measured at the time of death correspond with near-death experiences?

Saturday Evening
End-of=Consciousness Party

Contact:
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