Center for CONSCIOUSNESS STUDIES



May 3-7, 2011





Department of Anesthesiology
College of Medicine
P.O. Box 245114 | Tucson, AZ 85724
Tel: 520-621-9317 | Fax: 520-626-6416
center@u.arizona.edu
www.consciousness.arizona.edu

Perfjell Foundation Mind Event AB Västra Frölunda Tel: 46-31-757-4730 info@mindevent.se www.mindevent.se

CCS Director

President
Christer Perfjell
Mind Event AB Director

Stuart Hameroff, Anesthesiology, Psychology The University of Arizona, College of Medicine

CCS Assistant Director

Abi Behar Montefiore, Center for Consciousness Studies The University of Arizona, Department of Anesthesiology

> TOWARD A SCIENCE OF CONSCIOUSNESS Brain • Mind • Reality | May 3-7, 2011 Aula Magna Hall, Stockholm, SWEDEN

Program Committee

Stuart Hameroff, Co-chair, The University of Arizona
Christer Perfjell, Co-chair, Perfjell Foundation
Abi Behar Montefiore, Conference Director/Media Liaison, CCS

Paavo Pylkkanen, University of Helsinki | Peter Århem, Karolinska Institute
Deepak Chopra, The Chopra Foundation | Hartmut Neven, Google
Henrik Ehrsson, Karolinska Institute | Gustav Bernroider, University of Salzburg
Hans Liljenstrom, Swedish University of Agricultural Sciences
Michal Gruberger, Tel Aviv University | Maureen Ann Seaberg, New York
Nancy Clark, Tucson | Adrian Parker, University of Gothenburg
Annekatrine Puhle, University of Gothenburg | Nildson Alvares-Muniz
Etzel Cardena, Lund University | Valeria Petkova, Karolinska Institute
Alexander Moreira-Almeida, Universidade Federal de Juiz de Fora

Associate Directors - CCS

David Chalmers, Australian National University, Canberra Alfred Kaszniak, The University of Arizona, Tucson Bernard J. Baars, The Neurosciences Institute, San Diego

WELCOME

Welcome to 'Toward a Science of Consciousness', the eighteenth annual international, interdisciplinary conference on the fundamental question of how the brain produces conscious experience. Sponsored and organized by the Center for Consciousness Studies at the University of Arizona, this year's conference is supported by the Perfjell Foundation of Sweden and its President, Mr. Christer Perfjell.

Toward a Science of Consciousness (TSC) is the largest and longest-running interdisciplinary conference emphasizing broad and rigorous approaches to the study of conscious awareness. Topical areas include neuroscience, philosophy, psychology, biology, quantum physics, meditation and altered states, machine consciousness, culture and experiential phenomenology. Held annually since 1994, the TSC conferences alternate yearly between Tucson, Arizona and various locations around the world. We are delighted to bring the TSC 2011 to the beautiful city of Stockholm, Sweden and the historic Aula Magna Hall.

The first conference was held in 1994 in Tucson and continues to be held in Tucson in even-numbered years, alternating with TSC conferences in collaboration with groups in various locations around the world: 1995–Ischia, Italy; 1997–Elsinore, Denmark; 1999–Tokyo, Japan; 2001–Skövde, Sweden; 2003–Prague, Czech Republic; 2005–Copenhagen, Denmark; 2007–Budapest, Hungary; 2009–Hong Kong, China; 2011–Stockholm. Sweden.

TSC conferences continue to bring together various fields approaching the issue of consciousness from different perspectives, orientations and methodologies. These include neuroscience, philosophy, medicine, physics, biology, psychology, anthropology, contemplative and experiential traditions, arts, culture, humanities and others. TSC aims to integrate these disciplines, bridge gaps and pursue relevant details without blind alleys. Stockholm and Aula Magna Hall have austere, esteemed and respected scientific traditions on which we hope to build new advances and understanding of this age-old question reflecting on who we are, the nature of existence, and our place in the universe.

As in previous years, we expect hundreds of participants and presenters from 65 countries on 6 continents. Included are: Pre- and Post-Conference Workshops, 14 Plenary or Keynote sessions, 40 Concurrent talk sessions, 2 Poster sessions, 3 Art-Tech Interactive sessions, our traditional Consciousness Poetry Slam/Talent Show, optional Thursday Dinner Boat Cruise Dinner Destination, and the End-of-Consciousness Party.

The TSC Conference, Center for Consciousness Studies and The Perfjell Foundation wish to thank members of the Program Committee, CCS-TSC Assistant Director Abi Behar Montefiore for her conference management and editorial direction, SBS web guru Ed Xia and the team at Arizona Health Sciences Center Biomedical Communications: artwork/illustration David Cantrell, graphic design Roma Krebs, and web development/support Michael Griffith.

We would also like to express our sincere appreciation to Stockholms Universitet Aula Magna facilities, Agneta Hollström, conference liaison. And to Martin Kotte of Big Travel and Kicki Sjöblom of Mind Event AB for all of her work in coordinating the travel and hotel arrangements for our speakers and attendees. Also all printing of materials, managed by Charlotta Mansfeldt at Trydells Tryckeri AB, Laholm, Sweden. And, of course, to all the volunteers at Mind Event AB for providing help and support throughout the conference.

Additional thanks to the Karolinska grad students and post docs and to Valeria Petkova, Karolinska Institutet.

We also thank the University of Arizona, Department of Anesthesiology Business Manager, Jill Gibson and Department Administrator, Tawnya Tretschok and Steven J. Barker, Chair, Department of Anesthesiology, Arizona Health Sciences Center, University of Arizona, College of Medicine. Special thanks also to Dr. Hameroff's colleagues in the UMC surgical operating rooms.

Heartfelt thanks to Nancy Clark for serving as chair of the Art-Tech sessions, and to Maureen Seaberg for organizing the Synesthesia workshop. To all of our artists and exhibitors thank you for sharing your art with all of us.

We wish to thank 2011 Keynote Speaker, Sir Roger Penrose, and featured speakers Luc Montagnier and Deepak Chopra and their staff. Also we express our sincere appreciation to all of the Plenary, Concurrent, Poster and Art-Tech Demo presenters, Workshop facilitators, and Poetry Slam/Talent Show entertainers and all the attendees whose registration fees fund the conference.

To our sponsors, we thank the Fetzer Institute, YeTaDeL Foundation, Deepak Chopra and The Chopra Foundation, The Monroe Institute and Schmid College of Science at Chapman University. Special thanks to Lt. Col. David Sonntag, PhD, Deputy Director, Asian Office Aerospace R&D, Tokyo and the USAF Office of Scientific Research (AFOSR), USAF Asian Office of Aerospace Research and Development (AOARD), USAF European Office Aerospace R&D (EOARD). Additional support provided by the Tibet House, YeTaDeL Foundation, Journal of Cosmology, Elata Foundation, Institute of Noetic Sciences, Journal of Consciousness Studies, Agora for Biosystems, John Benjamins Publishing, Mindville SA, and The Consciousness Chronicles.

Thank you to all participants of the public Evening Forum at Aula Magna Hall. We want to thank our Moderator, Mia-Marie Hammarlin of Lund University and all of our participants, Peter Fenwick, Ignacio Silva, Giorgio Innocenti, Lluis Oviedo, Tarja Kallio-Tamminen, Leonard Mlodinow, Paola Zizzi, Menas Kafatos, Stuart Hameroff, and Deepak Chopra.

Finally, we owe special gratitude to our friend, Swedish businessman, Christer Perfjell whose leadership, vision and perseverance brought TSC 2011 to Stockholm and the celebrated Aula Magna Hall. Thank you for all you have done to make this program a success. Your support, inspiration and encouragement made this dream a reality.

Tack för allt du gjort för att göra detta program till en framgång. Tack Sverige. Tack Stockholm.

FINDING YOUR WAY AROUND THE CONFERENCE

A full-color map of the Conference site appears on the inside back cover.

AULA MAGNA HALL

Aula Magna Hall, Frescati Campus, Stockholm University

Aula Magna Hall is Stockholm University's main ceremonial space and is home to the Nobel Prize Award Ceremonies for the Nobel Prizes in Physics, Chemistry, Physiology or Medicine, Literature and the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel.

The Aula Magna Hall, designed by British-Swedish renowned architect, Ralph Erskine, offers a beautiful setting for the TSC-2011 conference with spacious foyers, steeply raked seating, beautiful wood and ceiling paneling and is known for its phenomenal acoustics. Meeting rooms at the Aula Magna Main Hall and adjacent buildings (Södra Huset "South House" – Juristernas Hus "Law Students House" – Geovetenskapens Hus "Geo-Science Building") will provide the perfect setting for our Workshops, Concurrents, Art Exhibits, Poster Sessions and informal gatherings.

SESSIONS

Several types of presentation sessions constitute the conference program.

BUILDING AND ROOM LOCATIONS

AM – Aula Magna Hall

SH – Södra Huset (South House)

JH – Juristernas Hus (Law Students House)

GEO – Geovetenskapens Hus (Geo-Science Building)

WORKSHOP LOCATIONS

Sunday, May 1, 2011	Synesthesia	9am-4pm	AM – Bergsmannen
	Neural Correlates	2pm-6pm	AM – Spelbomskan
Monday, May 2, 2011	Deepak Chopra	9am-4pm	AM – Aulan
Saturday, May 7, 2011	Altered States	2pm-6pm	AM – Bergsmannen
	Quantum Biology	2pm-6pm	AM – Aulan
	Binaural Beat	2pm-6pm	GEO – 50-Sal

EVENING PUBLIC FORUM

Science, Consciousness and Spirituality
Aula Magna Hall, Stockholm University
Monday, May 2, 2011, 5pm - 7pm

Scientific accounts of the brain as neuronal computer portray consciousness as epiphenomenal illusion without causal power, free will or spirituality. Subjective reports and spiritual teachings (interconnectedness among living beings, guiding wisdom inherent in the universe, conscious awareness after death) have seemed scientifically impossible, pushing scientists toward atheism or dualism. However in recent decades quantum biology has been considered as a basis for consciousness and spirituality, and end-of-life brain activity defies conventional explanations. Can quantum physics bridge science and spirituality?

Moderator: Mia-Marie Hammarlin

Assistant Professor, Department of Communication and Media, Lund University

PROGRAM

5:00-5:15pm - End-of-Life Conscious Experience

Peter Fenwick

Institute of Psychiatry, Southampton University, Kings College, London

5:15-5:30pm – God and Quantum Mechanics

Ignacio Silva

Theology, Harris Manchester College, University of Oxford

5:30-5:45pm – Quantum Physics and Eastern Philosophy

Tarja Kallio-Tamminen

Physicist, philosopher, author, Helsinki, Finland

5:45-6:00pm - Consciousness and Ultimate Reality

Deepak Chopra

Physician, author, spiritual leader, The Chopra Center, Carlsbad, CA

6:00-6:30pm – Panel/Commentary

Leonard Mlodinow, Physicist, Co-author of "Grand Design" with Stephen Hawking

Lluis Oviedo, Franciscan Theologian, Rome

Paola Zizzi, Astrophysicist, University of Padua

Giorgio Innocenti, Neuroscientist, Karolinska Institutet

Menas Kafatos, Physicist, author, Chapman University

Stuart Hameroff, Physician, Consciousness researcher, The University of Arizona

6:30-7:00pm - General Discussion

Sponsored by: The Center for Consciousness Studies, The University of Arizona, The Chopra Foundation, Perfjell Foundation

WELCOME RECEPTION – Aula Magna Plaza

Tuesday, May 3, 6:30-9pm

Meet outside Aula Magna Hall on the plaza to mingle with food and drinks.

ART-TECHNOLOGY DEMO SESSIONS - Aula Magna Lobby

Tuesday, May 3, 7-10pm | Wednesday, May 4, 7-10pm | Friday, May 6, 7-10pm

More interactive and experiential than concurrent sessions, the Art-Tech demo sessions occur in the evenings, demonstrating art, media, sculpture, and experiential techniques with PowerPoint presentations, body and canvas. Thank you to all the artists: Koei Endo, Ikuyo Endo, Jol Thomson, Ole Hagen, Jack Sneh, Werner Pans, Carrie Firman, Fiammetta Rubin, Jason Padgett and Dave Cantrell *(refreshments will be served)*.

POSTER SESSIONS - Aula Magna Lobby

Wednesday evening, May 4, 7-10pm | Friday, May 6, 7-10pm

Poster presentations will be held over 2 evening sessions. Presenters stand by their material posted on a large poster board as audience circulates (refreshments will be served).

AFTERNOON CONCURRENT TALK SESSIONS

Tuesday, May 3, 4:30-6pm | Wednesday, May 4, 4:30-6pm | Friday, May 5, 4:30-6pm

EVENING CONCURRENT TALK SESSIONS

Wednesday, May 4, 7-10pm | Friday, May 6, 7-10pm

CONFERENCE DINNER – meet at Aula Magna Lobby

Thursday, May 5, 5-10pm | Aquaria Restaurant and Water Museum

Enjoy a boat ride from the Stadshuset, the City Hall of Stockholm, across Lake Mälaren through the locks to the Baltic Sea and the beautiful arcipelage/archipelago of Stockholm passing the island of Riddarfjärden (a part of Mälaren) to the island of Djurgården and the picturesque Aquaria Restaurant and Water Museum. Enjoy a wonderful meal and light entertainment in the Stockholm tradition (ticket required).

Poetry Slam/Talent Show

Friday, May 6, 10pm to Midnight

As in previous conferences, a Poetry Slam/Talent show will take place on Friday evening from 10pm to Midnight *(cash bar)*. Conference attendees are invited to perform for a cheering and sometimes jeering audience.

END-OF-CONSCIOUSNESS PARTY – Brain-Berg at the Ice Bar *Saturday night, May 7 (7:30pm - ???)*

This is a TSC Conference tradition. The party will start at the famous Nordic Sea Absolut Ice Bar. Enjoy food, drinks, cash bar, and music.

Keynote Speaker | Sir Roger Penrose



Sir Roger Penrose, OM, FRS is Emeritus Rouse Ball Professor at the Mathematical Institute at Oxford, and Emeritus Fellow at Wadham College. He is an historic and world-wide authority on the nature of reality, and renowned for pioneering work in black holes, twistors, spacetime geometry, cosmic censorship, Penrose tilings, quantum gravity and other areas. In 1989 he proposed consciousness as a particular form of quantum state reduction intrinsic to the universe, and later teamed with Stuart Hameroff to formalize the process in brain microtubules. His awards include the 1988 Wolf Prize (shared with Stephen Hawking). He has authored numerous books including *The Road to Reality* and *Shadows of the Mind*. His most recent book, *Cycles of Time* proposes serial universes preceding the Big Bang.

Sir Roger Penrose Consciousness and Physical Law

Friday May 6, 11:10am to 12:30pm Aula Magna Hall

Abstract: A profound puzzle of quantum mechanics is that the discontinuous and probabilistic procedure adopted for measurement is in blatant contradiction with the continuous and deterministic unitary evolution of the Schrödinger equation. An inanimate measuring device, being made from quantum particles, ought to follow the unitary laws, so many physicists take the view that consciousness is ultimately needed for measurement. I here express the almost opposite view that the unitary law must be violated for massive enough systems, and that it is consciousness itself that depends upon this violation, requiring new physics and exotic biological structures for its manifestation. The issue of what kind of universe history could provide laws fine-tuned enough for consciousness to arise will also be raised.

Toward a Science of Consciousness May 3-7, 2011

Frescati Campus, Stockholm University Aula Magna Hall | Stockholm, Sweden

Tuesday May 3

Registration

Aula Magna Hall

8:30am to 10:40am

PLENARY 1

Brain Electromagnetic Fields and Consciousness

David A. McCormick, Yale – Endogenous Electric Fields Guide Cortical Network Activity

Susan Pockett, Auckland – Electromagnetic Field Theory of Consciousness

Johnioe McFadden, Surrey – The Cemi Field Theory: Gestalt Information and the Meaning of Meaning

10:40am to 11:10am

Break

11:10am to 12:30pm

PLENARY 2

Time and Consciousness I

Harald Atmanspacher, Freiberg - Temporal Nonlocality in Bistable Perception

Sara Gonzalez Andino, Geneva – Backward Time Referral in the Amygdala of Primates

12:30pm to 2:00pm

Lunch

2:00pm to 4:10pm

PLENARY 3

Consciousness and Reality I

Deepak Chopra, The Chopra Center, Carlsbad – Vedic Approaches to Consciousness and Reality

Leonard Mlodinow. Pasadena – The Grand Design of Our Universe

Paola Zizzi, Padua - Consciousness in the Early Universe

4:30pm to 6:35pm Concurrent Sessions 1-8 / Locations

C1 Representation/HOT GEO, 50-Sal **C2 Knowledge/Hard Problem** GEO, 40-Sal

C3 Free Will/Libet GEO, Allamn/Högbomssalne

C4 Synesthesia
C5 NCC I
C6 Medicine I
C7 Quantum I
C8 Altered States
AM, Aulan
SH, E-10
SH, F-11
GEO, 35-sal
AM, Bergsmannen

6:30pm to 9:00pm Welcome Reception – Aula Magna Plaza

7:00pm to 10:00pm Art-Tech Exhibits – Aula Magna Lobby

AM Aula Magna – **JH** Juristernas Hus (Law Student's House) – **SH** Södra Huset (South House) – **GEO** Geovetenskapens Hus (Geo-Science Building)

WEDNESDAY MAY 4

8:30am to 10:40am **PLENARY 4**

Transcranial Therapies

Eric Wassermann, NIH - Transcranial Stimulation and Consciousness

Allan Snyder, Sydney – Accessing Information Normally Beyond Conscious Awareness

W. Jamie Tyler, Virginia Tech - Mechanical Waves and Consciousness

10:40am to 11:10am Break

11:10pm to 12:30pm **PLENARY 5**

Neural Correlates of Consciousness I

Rafael Malach, Weizmann – Local Neuronal Ignitions and the Emergence of Perceptual Awareness Dietmar Plenz, NIH – Neuronal Avalanches, Coherence Potentials, and Cooperativity

12:30pm to 2:00pm Lunch

2:00pm to 4:10pm **PLENARY 6**

Consciousness and Reality II

Menas Kafatos. Chapman – Consciousness and The Universe

Tarja Kallio-Tamminen, Helsinki – Quantum Physics and Eastern Philosophy Paavo Pylkkanen, Helsinki – Bohmian View of Consciousness and Reality

4:30pm to 6:35pm Concurrent Sessions 9-16 / Locations

C9 Phenomenology/ContentSH, C-6C10 PanpsychismSH, B-5C11 TimeSH, E-10C12 NCC ISH, D-8

C13 Medicine II JH, Reinholdsalen

C14 Quantum II SH. F-11

C15 Religion AM. Bergsmannen

C16 Experiential I AM, Aulan

6:35pm to 10:00pm **Poster Session** – Aula Magna Lobby

6:35pm to 10:00pm Art-Tech Exhibit – Aula Magna Lobby

7:00pm to 10:00pm Concurrent Sessions 17-24 / Locations

C17 Language/Reporting SH, C-6 **C18 Al/Computationalism** AM, Aulan **C19 TBA** SH, B-5

C20 Microtubules I JH, Reinholdsalen
C21 Altered States II AM, Bergsmannen

C22 Integrative Models I SH, F-11
C23 Experiential II SH, D-8
C24 Eastern Approaches I SH, E-10

THURSDAY, MAY 5

8:30am to 10:40 am **PLENARY 7**

Varieties of Religious Experience

Mario Beauregard, Montreal – Neuroscience of Transcendent Experiences

Alexander Moreira-Almeida, Juiz De Fora – Spiritual Experiences and Mental Disorders

Party Barlo Bahasta Birda Japaina – Savyad Planta of Amazania

Padr. Paulo Roberto, Rio de Janeiro – Sacred Plants of Amazonia

10:40am to 11:10am Break

11:10am to 12:30pm PLENARY 8

Time and Consciousness II

Dick Bierman, Amsterdam – Presentiment

Moran Cerf, NYU - Time Effects in Human Cortical Neuronal Firings

12:30pm to 2:00pm Lunch

2:00pm to 4:10pm PLENARY 9

Quantum Biology

Luc Montagnier, Nobel Laureate, Paris – DNA, Waves and Water **Giuseppe Vitiello**, Salerno – DNA: On the Wave of Coherence

Gustav Bernroider/Johann Summhammer, Salzburg – Quantum Properties in Ion Channel Proteins

5:00pm **CONFERENCE DINNER CRUISE**

Dinner participants meet at the Registration Desk in the AM lobby (optional event, ticket required)

FRIDAY, May 6

8:30am to 10:40am PLENARY 10

Microtubules

Jack Tuszynski, University of Alberta – Information Processing Within Dendritic Cytoskeleton Anirban Bandyopadhyay, NIMS – Quantum States in Microtubules and Topological Invariance Rudolph E. Tanzi, Harvard University – "The Amyloid Trap" Hypothesis of Alzheimer's Disease

10:40am to 11:10am Break

11:10am to 12:30pm PLENARY 11

Keynote – Sir Roger Penrose, Oxford Consciousness and Physical Law

12:30pm to 2:00pm Lunch

2:00pm to 4:10pm PLENARY 12

Neural Correlates of Consciousness II

Germund Hesslow, Lund – The Inner World As Simulated Interaction With The Environment **Henrik Ehrsson**, Karolinska – How We Come To Experience That We Own Our Body **Fredrik Ullén**, Karolinska – The Psychological Flow Experience

4:30pm to 6:35pm Concurrent Sessions 25-32 / Locations

C25 Materialism/Physicalism SH, E-10 **C26 Self/Identity** SH, D-8

C27 NCC III AM, Bergsmannen

C28 Body ConsciousnessAM, AulanC29 Biology/Microtubules IISH, C-6C30 Experiential IIISH, B-5

C31 PSI/Altered States III JH, Reinholdsalen

C32 Eastern Approaches II SH, F-11

6:35pm to 10:00pm Poster Session | Aula Magna Lobby

6:35pm to 10:00pm Art-Tech Exhibit | Aula Magna Lobby

7:00pm to 10:00pm Concurrent Sessions 33-40 / Locations

C33 Medicine III SH, E-10
C34 Embodiment SH, F-11
C35 Integrative Models SH, B-5
C36 Experiential IV AM, Aulan
C37 Ontology/Panpsychism SH, D-8

C38 Mental Imagery AM, Bergsmannen

C39 Physics/Integr Models II SH. C-6

C40 Language II/Integr Models JH, Reinholdsalen

10:00pm to midnight Poetry Slam/Talent Show

SATURDAY, MAY 7

8:30am to 10:40am PLENARY 13

Anesthesia and Consciousness

Anthony Hudetz, Milwaukee – Anesthetics and Gamma Synchrony Nicholas Franks, London – Molecular Actions of Anesthetics

Stuart Hameroff, UMC Arizona - Meyer-Overton Meets Quantum Physics

11:10am to 12:30pm PLENARY 14

End-of-Life Brain Activity

Lakhmir S. Chawla, GWU - Surges of Electroencephalogram Activity at the Time of Death.

Peter Fenwick, London - Death and the Loosening of Consciousness

2:00pm to 6:00pm **Optional Workshops**

7:30pm to ??? End-of-Consciousness Party

Brain-Berg at the Ice Bar

Nordic Sea Hotel Absolut Ice Bar

Index to Plenary Sessions

PL 1 - PL 14

AM Aulan | Aula Magna Hall

PLENARY SESSIONS

Tuesday-Saturday, May 3-7

(PL 1-3 Tues. – PL 4-6 Wed. – PL 7-9 Thurs. – PL 10-12 Fri. – PL 13-14 Sat.)

All Plenary Sessions will be held in the historic Aula Magna Hall. Fourteen plenary and keynote sessions will be presented to the entire conference audience.

PL 1 BRAIN ELECTROMAGNETIC FIELDS AND CONSCIOUSNESS

David McCormick, Endogenous Electric Fields Guide Cortical Network Activity [111]

Sue Pockett, Electromagnetic Field Theory of Consciousness: The Shape of Conscious Fields [224]

Johnjoe McFadden, The Cemi Field Theory: Gestalt Information and the Meaning of Meaning [64]

PL 2 TIME AND CONSCIOUSNESS I

Harald Atmanspacher, Temporal Nonlocality in Bistable Perception [189] Sara Gonzalez Andino, Backward Time Referral in the Amygdala of Primates [98]

PL 3 CONSCIOUSNESS AND REALITY I

Deepak Chopra, MD, Vedic Approaches to Consciousness and Reality [204] Leonard Mlodinow, The Grand Design of our Universe [205] Paola Zizzi, Consciousness in the Early Universe [203]

PL 4 TRANSCRANIAL THERAPIES

Eric Wassermann, Transcranial Stimulation and Consciousness [226]
Allan Snyder, Accessing Information Normally Beyond Conscious Awareness
by Non-Invasive Brain Stimulation: Opening the Doors to Perception and Memory? [170]
William Tyler, Mechanical Waves and Consciousness [136]

PL 5 NEURAL CORRELATES OF CONSCIOUSNESS I

Rafael Malach, Local Neuronal Ignitions and the Emergence of Perceptual Awareness [110]
Dietmar Plenz, Neuronal Avalanches, Coherence Potentials, and Cooperativity:
Dynamical Aspects that Define Mammalian Cortex [113]

PL 6 CONSCIOUSNESS AND REALITY II

 Menas Kafatos, Consciousness and the Universe: Non-Local, Entangled, Probabilistic and Complementary Reality [210]
 Tarja Kallio Tamminen, Quantum Physics and Eastern Philosophy [197]
 Paavo Pylkkanen, Bohmian View of Consciousness and Reality [41]

AM Aula Magna – **JH** Juristernas Hus (Law Student's House) – **SH** Södra Huset (South House) – **GEO** Geovetenskapens Hus (Geo-Science Building)

PL 7 VARIETIES OF RELIGIOUS EXPERIENCE

Mario Beauregard, Neuroscience of Transcendent Experiences [100]

Alexander Moreira-Almeida, Differential Diagnosis Between Spiritual Experiences and Mental Disorders [264]

Padrinho Paulo Roberto, Sacramental Plants of Amazonia: Consciousness Expansion, Self Knowledge and Religious Experience [241]

PL 8 TIME AND CONSCIOUSNESS II

Dick Bierman, Presentiment [273]

Moran Cerf, Time Effects in Human Cortical Neuronal Firings [101]

PL 9 OUANTUM BIOLOGY

Luc Montagnier, DNA, Waves and Water [135]

Giuseppe Vitiello. DNA: on the Wave of Coherence [202]

Gustav Bernroider/Johann Summhammer, Quantum Properties in Ion Channel Proteins and their Effect on Neural Signal Segregation and Perception [193]

PL 10 MICROTUBULES

Jack A. Tuszynski, Information Processing within a Neuron via Electrodynamic Signaling by the Dendritic Cytoskeleton [225]

Anirban Bandyopadhyay, Direct Experimental Evidence for the Quantum States in Microtubules and Topological Invariance [191]

Rudolph E. Tanzi, "The Amyloid Trap" – Hypothesis of Alzheimer's disease [125]

PL 11 KEYNOTE

Sir Roger Penrose. Consciousness and Physical Law [201]

PL 12 NEURAL CORRELATES OF CONSCIOUSNESS II

Germund Hesslow. The Inner World as Simulated Interaction with the Environment [105]

H. Henrik Ehrsson, How We Come to Experience that We Own Our Body:

The Cognitive Neuroscience of Body Self-Perception [121]

Fredrik Ullén, The Psychological Flow Experience: From Phenomenology to Biological Correlates [185]

PL 13 ANESTHESIA AND CONSCIOUSNESS

Anthony Hudetz, Anesthetics and Gamma Synchrony [132]

Nicholas Franks. Molecular and Neuronal Mechanisms of General Anesthesia [130]

Stuart Hameroff, Meyer-Overton Meets Quantum Physics: Consciousness,

Memory and Anesthetic Binding in Tubulin Hydrophobic Channels [131]

PL 14 END-OF-LIFE BRAIN ACTIVITY

Lakhmir S. Chawla, Surges of Electroencephalogram Activity at the Time of Death: A Case Series [128]

Peter Fenwick, Death and the Loosening of Consciousness [274]

Index to Concurrent Sessions

C1-C40

Afternoon Concurrent Sessions – 4:30pm to 6:35pm Tuesday, May 3 | Wednesday, May 4 | Friday, May 6

Evening Concurrent Sessions – 7:00pm to 10:00pm Wednesday, May 4 | Friday, May 6

Concurrent talks are 20 minutes each, with 5 minutes for questions. There are 5-6 speakers per session, covering focused areas of the same theme. LCD projectors and lap tops available. There is additional time at the end of each track for general discussion. The following list consists of the Section Number, Session Name, Order of Speakers, Corresponding Abstract Index Number and the Building/Room Location.

C 1 Representation/HOT

GEO, 50-Sal

Geovetenskapens Hus, Geo-Science Building

Jordan Pop-Jordanov, Brain electric field and consciousness level [114]
Mette Kristine Hansen, Do higher-level properties influence the phenomenal character of visual experiences? [93]

George Seli, The utility of perceptual consciousness on higher-order theory [58]

Sean Allen-Hermanson, A critique of pure representation [91]

Andrea Borsato, A counterexample for weak representationalism [246]

C 2 Knowledge/Hard Problem

GEO, 40-Sal

Geovetenskapens Hus, Geo-Science Building

Noel Boyle, Jackson's dual stipulation: The incoherence of the description of Mary [49]

Shigeki Sugiyama, Between knowledge and consciousness (II) [20]

José M. Matías, The Meta-structure of knowledge: Object, meaning, reference and the explanatory gap [72]

 $\textbf{St\'ale Gundersen}, \textit{Epistemic pessimism and the mind-body problem \textbf{[61]}}$

Krzysztof Swiatek, The problem of content and self-knowledge of one's mental states [76]

C 3 Free Will/Libet

GEO, Allamn/Högbomssalne

Geovetenskapens Hus, Geo-Science Building

Eva-Maria Leicht, Free Will: A question of personality and self-involvement?

Hints from interindividual differences in the lateralized readiness potential [89]

Michael Franklin, Using retrocausal practice effects to predict random binary events in an applied setting [275]

Andrew Westcombe, Decisions, Decisions [90]

Anastasia Karpukhina, Generalization in human thinking [56]

Stephen Whitmarsh, Meditation, mindfulness, visualization and retroactive recall [256]

AM Aula Magna – **JH** Juristernas Hus (Law Student's House) – **SH** Södra Huset (South House) – **GEO** Geovetenskapens Hus (Geo-Science Building)

C 4 Synesthesia

AM, Aulan Aula Magna Hall

Maureen Seaberg, Reading synesthesia between the lines [272]

Patricia Lynne Duffy, The landscapes of synesthesia

(filling out the definition of synesthesia--it's more than just color) [155]

Michael Sollberger, Synaesthesia and the structural approach to perceptual content [95]

Alexandra Kirschner, Synesthesia and singing: a challenge [287]

Berit Brogaard/ Jason Padgett, The superhuman mind: From synesthesia to savant syndrome/ Geometric Synesthesia [126] [176]

C 5 NCC I SH, E-10

Södra Huset, South House

Hans Liljenstrom, Consciousness and mesoscopic brain dynamics [108]

Shawn Hayley, Neural correlates of massage therapy in healthy adults:

Role of the default mode network [127]

Frederick Travis, Quantum effects, brain functioning, consciousness, and meditation practice [99]

Zoran Josipovic, Default to nonduality [106]

Juliana Yordanova, Increased Alpha (8-12 Hz) activity during slow-wave sleep as a marker for the transition from implicit knowledge to explicit insight [116]

C 6 Medicine I SH, F-11

Södra Huset, South House

Heather A. Berlin, Implicit self-esteem in borderline personality and depersonalization disorder [165]
Ovidiu Brazdau. Validation studies of the Consciousness Quotient Inventory (CQI) [149]

Leanna J. Standish, Using fMRI to evaluate the non-local, 'entangled' mind hypothesis:

The effects of distant Qi Gong on blood flow in gliomas and healthy human brains [242]

Ahmed Abdel-Khalek, Mental health in the East and West: Four Arab countries and the USA [158]

Orlando Castejón, Synaptic plasticity and synaptic degeneration in unconscious patients with severe traumatic brain injuries. A transmission electron microscopic study using cortical biopsies. [134]

C 7 Quantum I GEO, 35-Sal

Geovetenskapens Hus, Geo-Science Building

Andrei Khrennikov, Quantum-like open system dynamics and the process of decision making in Prisoner's Dilemma games [139]

Athanassios Nassikas, Theorem required for a minimum contradictions theory of consciousness [222]

Franz Klaus Jansen, Quantum mechanics A model for consciousness also showing

uncertainty, superposition and timelessness [196]

Takaaki Musha, Possibility of quantum computation in the brain from the standpoint of superluminal particles [199]

Marta Sananes, Superluminality as possible explanation of quantum non-locality [212]

Muniyappan Annamalai, Localized wave modes in tubulin lattices [219]

C 8 Altered States I

AM, Bergsmannen Aula Magna Hall

Pim van Lommel, Nonlocal consciousness: a concept on the continuity of our consciousness [259A]

Adrian Parker, Zombies do not have psychedelic trips [14]

Paul Evans, Singularity, entrainment and consciousness enhancement [54]

Shawn Tassone, Medical materialism, shamanic healing and the allopathic paradigm [51]

Klaus Alberto, Research on mediumistic experiences and the mind-brain relationship [47]

C 9 Phenomenology/Content

SH, C-6

Södra Huset, South House

Ivan M. Havel, Counting and human number sense [157]

Peter Sjöstedt Hughes, Schopenhauer and the philosophy of mind [42]

Tobias Schlicht. Phenomenal unity and the science of consciousness [19]

Joel Parthemore. The limits of concepts and conceptual abilities [15]

Roma Hernández. Empathizing with the unconscious: A point of relevance of phenomenology for the cognitive sciences [247]

C 10 Panpsychism

SH, B-5

Södra Huset, South House

Peter Ells, Introducing an idealist conception of panpsychism [27]

Igor Nevvazhay, Dual nature of consciousness [38]

Tom McClelland. Science, consciousness and the Russellian speculation [37]

Neil Theise. Sentience everywhere: Complexity and evolutionary emergence of sentient activity across all scales of existence [217]

C 11 Time

SH, E-10

Södra Huset, South House

Olga Maksakova, Chronotop consciousness versus time consciousness:

Kinetographic approach [180]

Jürgen Kornmeier, EEG correlates of stable and unstable mental object representations [117]

Sharon Avital, Language, time, and subjectivity: lessons learned from

rhetorical analysis of religious experiences [78]

Francis Steen. A testable model for quantum effects in cognitive framing [182]

Mario Martinez Saito. Functional mechanisms underlying the perception of subjective time flow [181]

C 12 NCC II

SH. D-8

Södra Huset, South House

Johan Eriksson, On the complexity of consciousness: An fMRI study of the intersection between auditory conscious perception, working memory content, and task difficulty [102]

Andrew Fingelkurts, Operational architectonics of consciousness:

EEG study in patients with severely injured brain [103]

John Russell Hebert, Alpha EEG In-phase standing wave: Evidence for a quantum source of consciousness [138]

Maje Bachmann. Effect of low-level electromagnetic field on the balance of the EEG rhythms [146]

Hee-Sup Shin, Involvement of the mediodorsal thalamus in control of arousal and cognition in the mouse [145]

C 13 Medicine II

JH. Reinholdsalen

Juristernas Hus

Ross Grumet, Mindfulness versus medication in treating ADHD and a related hypothesis that the

brain does not produce conscious mental experience [239] Amna Alfaki, Cardiac neurons firing precedes cortical neurons firing by variable time equivalent

to RP or Libet's Latency Period in goal directed behavior or action in conscious state [97] Paola Brugnoli, The techniques of clinical hypnosis and 'altered states of consciousness' in pain and suffering relief, at the end of life [257]

Csaba Szabo. Changes of subjective experiences during voluntary hyperventilation:

An experimental study of the holotropic breathing [269]

Lars-Eric Uneståhl, Systematical and long-term training of alternative states of consciousness for excellence in sport and life [258]

C 14 Quantum II

SH, F-11

Södra Huset, South House

Gerard Blommestijn, Quantum reduction connects subjective I with the world of objective matter [194] **Matti Berustrom**. The statistical dispersion of particles in quantum physics is an error [192]

Casey Blood, Quantum mechanics and the origin of consciousness [195]

David Longinotti. Qualia as a biological form of energy [52]

Shantilal Goradia, Considerations concerning the overall unification [221]

C 15 Religion

AM, Bergsmannen Aula Magna Hall

Lluis Oviedo, Religion As Conscious Behavior [289]

Antoon Geels, Altering consciousness in religion [288]

Jon Cape, Naked Emperor [300]

Heather Christ, A correlation analysis of transformational leadership and spiritual intelligence **[183] Janette Simmonds**, Spirituality and the mind space of the psychotherapist **[270]**

C 16 Experiential I

AM, Aulan

Aula Magna Hall

Robert Pepperell, Art and externalism: How artists understand the relationship between themselves and the world [285]

Koei Endo, The 90 degree topological transformation with Ikosolid – The unifying revolution to the foundations on quantum mechanics [137]

John Jupe, The experiential field: A novel approach to representing perceptual experience [153] Guy J Ale, It is in our DNA to sense how long we can live [231]

Sukhdev Roy, Higher levels of consciousness beyond Vedas and their attainment in religion of Saints and Radhasoami faith [245]

Sergey Kuprijanov, The Holoscendence Method for psychotherapy and for advancing personal and spiritual growth [211]

C 17 Language / Reporting

SH, C-6

Södra Huset, South House

Sergio Basbaum, Performing towards sense: The perception-language loop [92]

Christina Behme, The emergence of linguistic consciousness [159]

James Moir, Language, Consciousness and performative action [94]

Jon Goodbun, Rheomode and aesthetics: Towards an ecological cybernetics of mind [282]

Maxim Stamenov, Lies, theory of mind, and the structure of consciousness [161]

David Gamez, Reporting conscious states: A neuro-phenomenological analysis [104]

C 18 AI/Computationalism

AM, Aulan

Aula Magna Hall

Hartmut Neven, Learning with quantum annealing in the presence of incorrectly labeled training examples [200]

J.F. Nystrom, On some theoretical problems with brain emulation [39]

Anders Tunevi, Learning how an object functions by experimentation [175]

Peter Breznay, Artificial consciousness: A computational approach to understanding consciousness [215]

Victor Argonov, Is machine able to speak about consciousness? Rigorous approach to mind-body problem and strong Al [55]

C 20 Microtubules I

JH, Reinholdsalen Juristernas Hus

Giuseppe Vitiello, To-be-in-the-world: The action-perception cycle and the dissipative many-body model of brain [143]

Travis Craddock, Volatile anesthetic interactions with tubulin and coherent energy transfer [129] Jesper Ronager, Data flow and functional design of the brain. A model based on the assumption that electrons exist in a quantum state located to the lumen of tubular proteins of the cytoskeleton. [141]

Massimo Pregnolato, Altered states of consciousness. Molecular hypothesis and experimental approach from membrane to quantum cytoskeleton nanowire network [16]

James Beran, Microtubules in yet another role? Transient cytoskeletal electrical currents and change in conscious experience [133]

Vahid Salari, Investigation of biophotons emissions, microtubule activity and action potentials in the human brain [142]

C 21 Altered States II

AM, Bergsmannen Aula Magna Hall

Luis Eduardo Luna, Know Thyself. Ayahuasca as a tool for self-knowledge, creativity and the study of consciousness [263]

Kersti Wistrand, New altered states of consciousness (ASC) at childbirth [265]

Etzel Cardena, Altering consciousness: Setting up the stage [259]

Dimitri Spivak, Religiosity and alterations of consciousness related to aging and longevity, and their genetic correlates [179]

Reginald Humphreys, Consciousness magic: Quantum entrainment of the autonomic nervous system [262]

Brigitta Zics, The concept of cognitive feedback loop: Applying eye tracking and affective visualisation for new states of consciousness [266]

C 22 Integrative Models I

SH, F-11

Södra Huset, South House

Søren Brier, C. S. Peirce's phenomenologically triadic semiotic theory of science and religion as non-fundamentalistic inquiries of thirdness and firstness [24]

Milena Sotirova-Kohli, Psyche as a complex adaptive system: Analytical (Jungian) psychology and complexity theory [171]

Ashley Willis, Feeling through the field: How understanding acts of perception may help constrain the properties of the conscious field [115]

Julia Shaw, Emergent consciousness from self-organized dimensions of meaning through intercoordination of perspectives [87]

Piero Benazzo, Empirical virtuality and transcendental consciousness: A paradigm about two approaches to life [208]

Taras Handziv. Consciousness: New paradigm in philosophy [233]

C 23 Experiential II

SH, D-8

Södra Huset, South House

Hasmukh Taylor, How consciousness forms the quantum hologram [43]

Lothar Schäfer, Can trans-material and trans-empirical theories of consciousness be scientific? [18] Amalia Tsakiri, Artificial "Consciousness Wells" – An approach of autopoietic exegesis on

fabricating and sustaining prescribed "Weltanschauungen" in closed groupings [292]

Dirk Proeckl, Hypnagogic light experience [17]

Yulia Ustinova, Altered states of consciousness and mystery cults in Ancient Greece [291]

Mary Lee-Woolf, Dreams, visions and mystical revelations: The mechanics of imagination [118]

C 24 Eastern Approaches I

SH, E-10

Södra Huset, South House

Henk De Weijer, Consciousness and energy in an evolving universe [8] Marek Bronislaw Majorek, Consciousness: Expanding horizons [35]

Dhanjoo N Ghista, Consciousness and cosmology: Unified theory of consciousness, matter and mind [10]

William Bushell, The universe in an atom: Quantum/fractal self-similarity in yoga, perception, and cosmology [252]

Ole Hagen, Towards an ontology of immanence and introspection: An Indo-tibetan Buddhist response to the post-phenomenological critique of introspection in continental thought [30]

Abdellatif Abujudeh, What it's like to be 'Abdu' - Ed.(1) [244]

Shyamala Mruthinti, Sense-trapped mind can cause various mind-related diseases, while sensereleased mind charged with infinite consciousness can cure all ailments of body and mind [112]

C 25 Materialism/Physicalism

SH, E-10

Södra Huset, South House

Saulo Araujo, Materialism's eternal return: Recurrent patterns of materialistic explanations of consciousness and other mental phenomena [48]

Jan Pilotti, What can a brain really do? Mind-body question is either undecidable or materialism is false. Solving the problem of consciousness by transforming the hard problems to easy ones [62]

Carissa Veliz, Can physicalism explain consciousness? [63]

Laurentiu Staicu, How can we reality-check our concept of "reality"? [2]

Reinaldo Bernal, Materialism and the subjectivity of experience [1]

C 26 Self/Identity

SH, D-8

Södra Huset, South House

Manos Tsakiris, The other in me: Interpersonal multisensory stimulation changes the representation of one's identity [88]

Yao Wen Hsieh, Are schizophrenic experiences exceptions to the Shoemaker's principle of immunity to error through misidentification? [82]

Marie-Christine Nizzi, The feeling of personal identity in the locked-in syndrome is deeply rooted in the body representation [85]

Ling-Fang Kuo, Is personal identity the wrong question to ask? [83]

Hui-Ming Chin, Does self reference require the capacity of using the first-person pronoun '1'? [7]

C 27 NCC III

AM, Bergsmannen Aula Magna Hall

Giorgio Ascoli, Gated Learning: Much ado about background information [124]

David Silverstein, Is attentional blink a byproduct of neocortical attractors? [152]

Artin Arshamian, Olfactory Imagery – Sniffs, Dreams and Memories [162]

Yoshi Tamori, A neural correlates of creativity: MEG study for Japanese-syllogistic-riddle (JSR) solving tasks [184]

Alexis Mourenza, Potentialities and the Indeterminacy of Nonhuman Animal Minds [65]

C 28 Body Consciousness

AM, Aulan Aula Magna Hall

Valeria Petkova, Do I need a body to know who I am? Perceptual and neural correlates of body ownership [123]

Tom Froese, Enacting the body? Use of distal-to-tactile sensory substitution interface does not lead to extension of body image [156]

Arvid Guterstam, The illusion of owning a third arm [147]

Leanne Whitney, Beyond conception: The pivotal role of the deep feminine in the awakening of consciousness [150]

Ted Lougheed, The effects of attentional load on self-consciousness [84]

C 29 Biology/Microtubules II

SH, C-6

Södra Huset, South House

Jiří Pokorný, Collective electrodynamic field in the brain [140]

Slobodan Zdravkovic, A Torsional model in nonlinear dynamics of microtubules [220]

Konstantin Korotkov, Non-local consciousness influence to physical sensors: Experimental data [57]

Hunter Adams, III, Shadows of thought: Soliton brain dynamics and consciousness [218]

Emil Annabi, Transcranial ultrasound (TUS) effects on chronic pain and mood:

A double blind crossover study [237]

C 30 Experiential III

SH, B-5

Södra Huset, South House

Ana Leonor Rodrigues, What I draw I know [249]

Donivan Bessinger, Verse, Universe [280]

Alexander Jon Graur, A Chalmerian poem: Translating David Chalmers' The Extended Mind Revisited into music [160]

Fiammetta Rubin, The art of conscious tunneling through the microtubules of the mind [168] Keisuke Suzuki, Substituting "here and now" – Using virtual reality technology [172]

C 31 PSI/Altered States III

JH, Reinholdsalen Juristernas Hus

Marcelo Mercante, Ayahuasca, spontaneous mental imagery, and the treatment of drug addiction and alcoholism in Brazil and Peru 12951

addiction and alcoholism in Brazil and Peru [295]
Imants Barušs, Apparent anomalous effects of intention on physical manifestation:

Experiments in remote healing using techniques derived from matrix energetics [271]

Melvin Morse. A triple blind study of remote viewing a virus in tomato plants [240]

Eugene Pustoshkin. Online networking as a way to catalyze and coordinate a transdisciplinary

community of scientists studying altered states of consciousness [277]

Shoichiro Komaki, Consciousness Causes Real Magnetic Fields [223]

C 32 Eastern Approaches II

SH, F-11

Södra Huset, South House

Richard Koenig, Towards a better understanding of 'consciousness': An analytical approach to the most prominent positions within the philosophy of mind **[70]**

Madeea Axinciuc, Hierarchies of consciousness and the principle of unity: Is there ultimate reality? [4]

Gary Weber, Living without conscious thought; What happened and how functioning is affected [255] Puran Bair. Five stages of mystical consciousness in two dimensions [251]

Chandraprakash Trivedi, Vedic science: The origin and evolution of consciousness [235]

C 33 Medicine III

SH, E-10

Södra Huset, South House

Walter Osika, The Swedish Association for Contemplation in Education and Research:

A collaboration with researchers from various faculties using meditation as contemplative inquiry on research questions [253]

Daniel Beal, Human microbiota and consciousness [227]

Nancy Clark. Demystifying energy healing [238]

Alice Kyburg, Action and perception in pain experience [96]

Rebecca Semmens-Wheeler, Alcohol increases hypnotic susceptibility [169]

C 34 Embodiment

SH, F-11

Södra Huset, South House

Feifei Zhou, From 'feel' to 'feeling': The enactive approach reconsidered [250]

Shanti Ganesh, The oscillatory nature of embodied cognition [174]

Sara Vollmer, A model of the evolution of morality, on the basis of neo-classical models figuring trustworthiness toward unknown others, in which open cooperation in learning is the basis for increased fitness [296]

Joel Krueger, Empathy, behaviorism, and the perception of other minds [248]

Zoltan Veres, (Re)presentational potential and consciousness [22]

Hao Pang, Does proprioception constitute self? [86]

C 35 Integrative Models

SH, B-5

Södra Huset, South House

William H Kautz, Science's future role in resolving the mysteries of consciousness [69]

George Hathaway, SETI by telepathy [276]

Donald Poochigian, On the nature of scientific mind [74]

Basim Alahmadi, New Lamps for academic courses in Saudi Arabia: Realism and consciousness of implementing culture-core materials [278]

VIIjo Martikainen, Consciousness as concept based and dynamic mental state [13]

C 36 Experiential IV

AM, Aulan

Aula Magna Hall

Daniel Meyer-Dinkgrafe, Ethical implications of theatre practice from a consciousness studies perspective [283]

Jennifer Kanary Nikolov(a), Hallucinations, An existential crisis? [187]

Georg Franck. What kind of being is mental presence? On the ontology of consciousness [28]

Martin Curtis, Rehearsing Chekhov: Rehearsal techniques informed by wider reading of neuroscience; cognitive exercises [297]

Naama Kostiner, Hemisphere – Discovering the benefits of consciousness expansion [177]

C 37 Ontology/Panpsychism

SH, D-8

Södra Huset, South House

Uziel Awret, On quantum mechanics and panpsychism [190]

Alexander J. Buck, Panpsychism reloaded: The concept of the self [80]

Alexander Georg Mirnig, Towards a better understanding of 'consciousness':

An analytical approach to the most prominent positions within the philosophy of mind [73]

Kathrine Elizabeth Anker, Consciousness – A Multi-scaled Flux of Communication [279]

Nildson Alvares Muniz, The fabric of the relativistic cosmos=new interdisciplinary perspectives on relative space-time and the texture of Einstein's Relativistic Cosmology [293]

Jaison Manialy, Panpsychism and the evolution of experience [36]

C 38 Mental Imagery

AM, Bergsmannen Aula Magna Hall

Sara Bizarro, Mental imagery and the method of loci [163]

Bruce Katz, What makes blue blue? [107]

Charles Whitehead, Mind wandering, happiness, and human spirituality [164]

Jack Sneh, Gazing into infinity: An eight-year observational and photographic study of wave patterns, light transmission, fractals, and evolving consciousness [286]

Carrie Firman, Multimedia synesthetic art: Creativity as research [281]

Natalie Geld, Activating mastery by demonstrating the resonance of consciousness science to life. Building global community to synthesize past, present & developing science in consciousness studies [299]

C 39 Physics/Integrative Models II

SH, C-6

Södra Huset, South House

Robert E. Haraldsen, How consciousness creates matter, relativity, quantum mechanics and self similarity: The oscillating universe of consciousness [31]

Thomas Droulez, Conscious perception, reality and the nature of space: Indirect realism and the relation between phenomenal space, neurophysiological space and physical reality [60]

Mohammad Reza Raeisi, In Iranian myths time has historical and vague meaning: Avesta (Iranian Holy Book) said more time about the special God, his name is Zarvan [207]

Wolfgang Baer, Operations in the first person perspective [59]

Marcus Abundis, Beyond cosmology, consciousness, and the "quantum" – Toward general information theory & spontaneous creative systems [3]

Colin Morrison, Psi-psychism: The most likely explanation of consciousness and quantum phenomena [198]

C 40 Language II / Integrative Models

JH, Reinholdsalen Juristernas Hus

Wolfgang Hebel, Functional physics of life; functional physics of biomolecular self-organization [228]

Peter Burton, Cognitive system theory: Mapping the structural relationship between conscious experience and cognitive processing in human cognition [25]

Kay Thomas, Australian indigenous people's dreaming consciousness **[45]**

Julia Bystrova, A relational model for the nature of consciousness [209]

Caglan Cinar Dilek, Can we understand self-consciousness through analyzing primitive self-awareness? Agency vs self-consciousness: A discussion of phenomenological approaches towards self-consciousness [9]

Johann Ge Moll, Temporal Waves and Thought Waves [66]

Index to Poster Sessions

Wednesday, May 4 and Friday, May 6 – 6:35pm to 10:00pm

P 1 Philosophy

Tatiana Bachkirova, Three conceptions of the self for applied purposes [79]

Sergey Bulanov, An outline project of homogenous non-computational cognitive system [53]

Barry Caulley, Consciousness discovery from the spiritual thought system, A Course In Miracles [5]

Emma Chien, Reason, emotion, and the theory of mind [6]

Alla Choifer, The three perspectives of consciousness [26]

Silvia Gáliková, Reconsidering the reality of consciousness and its metaphors [29]

Ida Hallgren Carlson. 'I' as a truth maintenance system:

Consciousness integrates information in order to arrange coherent structures [81]

William Hohenberger, Epistemological reasoning and structural solutions for defining the human psyche [67]

Dwight Holbrook, Some implications of the everyday out-of-body experience [68]

Matthew Houdek, Consciousness, enlightenment and existential evolution [32]

Paul Kulchenko, De/constructing Consciousness [11]

Tamar Levin, Holographic trans-disciplinary framework of consciousness:

An integrative perspective [12]

Kristjan Loorits, The Hard Problem of Existence [34]

F. N. Vanessa, "Jubi" O'Connor, From darkness to light: The way of Divine Reason [40]

Sandeep Sharma, Knowledge: Scientific analysis using set theory [75]

Sandra Tereshko, New understanding of nature of human beings [44]

Jussi Tuovinen, To be and not to be - Choice and semiosis as the basis of consciousness [46]

Laura Weed, What is most metaphysically basic in science; laws, sealing wax, cabbages, structures or things? [77]

P 2 Neuroscience

Dallas Bell, Applying the bounded variable of Ethic's Sigma Summation to the Goldman-Hodgkin-Katz Equation for binding consciousness with societal migration [144]

Michael Lipkind, In principle impossibility of the thoughts' reading experiment [109]

Richard Mazer, The illusion of sensory consciousness [122]

Jhone Moore, An integrated theory of consciousness [166]

Varsha Sharma, Exposure to low dose irradiation-alleviation of experimental epileptic seizures in experimental post-traumatic epilepsy of rats [148]

P 3 Cog Sci/Psychology

Shiau-hua Liu, The influence of craving on attention bias [151]

Ruggero Rapparini, The oneness of reality [178]

Liliana Lorna Villanueva, The mental impasse (total absence of thoughts) and its relation to the dilation of individual consciousness as result of spiritual awakening [173]

Stephen Waldon, The non-computability of creative processes [186]

P 4 Physical and Biological Sciences

Yoriko Atomi, Science-based understanding of the consciousness at two levels:

Own life system and own brain system. Lesson from the education program of
Gnothi Seauton, knowing yourself through your body. [214]

Alexander Egoyan, Elastic membrane based model of human perception [188]

John Grandy, DNA consciousness [232]

William McDougal, The physics of perception and redefining the human body as literally a specialized type of star, or solar form [229]

Mojtaba Omid, Time dilation and Em wavelength variations as the consequence of temperature changes in body and brain for affect life signals and time perception [206]

Anders Wallenbeck, Self-navigating signals [243]

John Waterworth, The sense of presence: Reflections on ontogenic and phylogenic changes in the nature of consciousness [236]

P 5 Experiential

Dan Booth Cohen, Systemic Family Constellations: Perceiving how consciousness transmits the effects of severe trauma across generations without direct sensory input [267]

Rosemary De Castella, Religious and spiritual growth following trauma [268]

Ingrid Fredriksson, The Anatomy of the invisible [260]

Lisa Romero, On perception of "reality" [254]

Danny Sandra, Integral leadership and the role of entrainment: Synchronizing consciousness [213]

P 6 Humanities

Jerry Josties, A 1962 encounter with Thomas Kuhn, Revolution, and a 1968 "Aha" Experience: Are the descriptional categories of physics sufficient for an understanding of consciousness? [301]

Marvin Kirsh, Mirroring, Need and Symbolism : A Two Timing Nature or a Whole Concept [294]

Haymo Kurz, Educating medical doctors about evolution of consciousness [298]

Ramon Penha, The expression of the spiritual dimension of nursing care in a Brazilian intensive care unit: A communicational study [290]

Art-Technology Demo Exhibit

Lobby | Aula Magna Hall The Jol Thomson Installation: Polstjanan Room

Interactive | Innovative | Evocative

CURATORS

Nancy Clark, Chair Maureen Seaberg Abi Behar Montefiore

ARTISTS

Koei Endo & Ikuyo Endo

Jol Thomson

Fiammetta Rubin

Dave Cantrell

Jack Sneh

Werner Pans

Ole Hagen

Carrie C Firman

Jason Padgett

Conference Workshops

Workshop 1

AM, Bergsmannen

Sunday, May 1, 2011 9:00am – 4:00pm

SYNESTHESIA

Moderator, Maureen Seaberg Participants: William C Bushell, Neil Theise, Patricia Lynne Duffy, Michael Sollberger, Nancy Clark, Daniel Meyer-Dinkgrafe, Alexandra Kirschner, Jason Padgett, Carrie C Firman, Ezgi Sorman, Berit Brogaard, Dick Proeckl, Engelbert Winkler

Workshop 2

AM, Spelbomskan

Sunday, May 1, 2001 2:00pm - 6:00pm NEURAL CORRELATES

Facilitators: Ron Chrisley and David Gamez

Workshop 3

AM, Aulan

Monday, May 2, 2001 9:00am – 4:00pm **DEEPAK CHOPRA**

Consciousness: The Ultimate Reality

Workshop 4

AM, Bergsmannen

Saturday, May 7, 2011 2:00pm -6:00pm

ALTERED STATES

Moderator, Etzel Cardena

Participants: Charles Whitehead, Yulia Ustinova, Antoon Geels, Pehr Granqist

Workshop 5

AM. Aulan

Saturday, May 7, 2011 2:00pm – 6:00pm OUANTUM BIOLOGY

Facilitator: Gustav Bernroider

Participants: Anirban Bandyopadhyay, Jack Tuszynski, Travis Craddock, Vahid Salari. Stuart Hameroff. Johann Summhammer. Giuseppe Vitiello. Hartmut Neven

Workshop 6 GEO, 50-Sal

Saturday, May 7, 2011 2:00pm – 6:00pm BINAURAL BEAT

Facilitator: Hillary Webb (Monroe Institute)
Trainers: Carl Österberg, Edward Visse

AM Aula Magna – **JH** Juristernas Hus (Law Student's House) – **SH** Södra Huset (South House) – **GEO** Geovetenskapens Hus (Geo-Science Building)