PROGRAM OUTLINE

TOWARD A SCIENCE OF CONSCIOUSNESS

April 13-17, 2010
Tucson Convention Center and Hotel Arizona

TUESDAY April 13

Leo Rich Theatre Registration 1:45 - 4:10 pm CONFERENCE OPENING/PLENARY 1 Leo Rich Theatre William James Centennial Eugene Taylor, Bernard J. Baars, Bruce Mangan 4:30 - 6:35 pm CONCURRENT SESSIONS 1-7 Tucson Convention Center (TCC) Hotel Arizona (HA) **C1** Consciousness, Representation and TCC - Coconino Thought **C2** Materialism, Dualism, and TCC - Gila Higher-Order Thought **C3** Neurobiology and Theories of TCC - Maricopa Consciousness: Brain Networks C4 Unconscious Processes TCC - Graham TCC - Greenlee **C5** AI and Computational Models **C6** Art, Media and Conscious Perception HA - Grand Ballroom West **C7** Altered States of Consciousness HA - Grand Ballroom East 7:00 - 9:30 pm Welcome Reception Hotel Arizona - Courtyard/Starlight Ballroom Light food and drinks 9:45 - 11:15 pm Club Consciousness 1

Leo Rich Theatre

WEDNESDAY April 14

8:30 - 10):40 am	PLENARY 2 DOUBLE KEYNOTE Marcus E. Raichle Brain Dark Matter and Defa Robert G. Shulman Brain Energy Supports the Consciousness	
10:40 - 1	11:10 am	Break	
11:10 an	n - 12:35 pm	PLENARY 3 Bodily Awareness Henrik Ehrsson, Frédérique A	Leo Rich Theatre De Vignemont
12:35 - 2	2:00 pm	Lunch	
2:00 - 4:	10 pm	PLENARY 4 Computational Models of Computational Models	
4:30 - 6:	35 pm	CONCURRENT SESSION Tucson Convention Center Hotel Arizona (HA)	
C8	Introspection		TCC - Maricopa
C9	Panpsychism	and Epiphenomenalism	TCC - Mohave
C10	Phenomenolog	gy and First-Person Approaches	HA - Cholla
C11	Dreaming		HA - Manzanita
C12	Neural Corre	lates of Consciousness	HA - Ocotillo
C13	Quantum and	Subcellular Approaches	TCC - Leo Rich Theater
C14	Contemplative and Religiou	ve, Spiritual s Approaches	HA - Grand Ballroom West
7:00 - 9:	45 pm	POSTER SESSION 1 (P1-TCC - Gila/Coconino/Grah	-P6) am/Greenlee
7:00 - 9:	20 pm	ART-TECH DEMO 1 TCC - Mohave/Maricopa	
9:45 - 11:15 pm		Club Consciousness 2 Leo Rich Theatre	

THURSDAY April 15

8:30 - 11:00 am PLENARY 5 Leo Rich Theatre

Multimodal Experience

Patricia Lynne Duffy, Barry Stein, Casey O'Callaghan, Michael Proulx

11:00 - 11:30 am Break

11:30 am - 12:50 pm PLENARY 6 KEYNOTE Leo Rich Theatre

David Chalmers

The Singularity: A Philosophical Analysis

Thursday afternoon: Free

Side Trips/Note: Motor Coaches will leave directly from the Leo Rich Theatre. Trip goers who will be attending the evening dinner will be taken directly to the Dinner Site at the conclusion of their trip. Others will continue back to the Hotel Arizona. Boxed lunches (ordered in advance) for the trip goers will be waiting with their designated tour bus.

6:30 - 10:30 pm Conference Dinner

La Paloma Hotel & Resort

Selections on Violin, Martha Curtis Sky Nelson and Chase Masterson, jazz selections (with a conscious twist!)

(casual dress)

FRIDAY April 16

8:30 - 10:40 am PLENARY 7 Leo Rich Theatre

Transformation of Consciousness *Cassandra Vieten, Jeffery Martin,*

Za Choeje Rinpoche

10:40 - 11:10 am Break

11:10 am - 12:35 pm PLENARY 8 KEYNOTE Leo Rich Theatre

Antonio Damasio
The Neural Self

12:35 - 2:00 pm Lunch

PLENARY 9 2:00 - 4:10 pm Leo Rich Theatre Theories of Consciousness Sid Kouider. Robert Van Gulick. Galen Strawson **CONCURRENT SESSIONS 15-21** 4:30 - 6:35 pm **C15** Consciousness and the Self TCC - Maricopa **C16** Ontology of Perception TCC - Mohave **C17** Neurobiology and Theories TCC - Leo Rich Theatre of Consciousness: Foundations **C18** Psychotherapy and Transformation HA - Cholla **C19** Mind-Wandering HA - Ocotillo **C20** Evolution of Consciousness HA - Grand Ballroom West **C21** Nonlocal and Anomalous HA - Grand Ballroom East Phenomena 7:00 - 9:20 pm **ART-TECH DEMO 2** TCC - Maricopa/Mohave 7:00 - 9:45 pm **POSTER SESSION 2 (P7-P12)** TCC - Gila/Coconino/Graham/Greenlee Club Consciousness 3 9:45 - Midnight Leo Rich Theatre Poetry Slam /Zombie Blues **SATURDAY April 17** 8:30-10:40 am PLENARY 10 Leo Rich Theatre New Directions in NCC Research Michal Gruberger, Moran Cerf, Adrienne Prettyman/Stephen Biggs, Anirban Bandyopadhyay 10:40 - 11:10 am Break 11:10 am - 12:35 pm PLENARY 11 KEYNOTE Leo Rich Theatre Robert J. Sawyer Science Fiction and Consciousness 12:35 - 2:00 pm Lunch Leo Rich Theatre 2:00 - 4:10 pm **PLENARY 12**

Mindwandering and Consciousness Jonathan Schooler, Malia Mason.

Jonathan Smallwood

Evening 7:30 pm till ???

End-of-Consciousness Party
Maynards at the Depot-across from
Congress Hotel

ART & INSTALLATIONS

BioScapes® - National Tour Exhibit

Now in its seventh year, the Olympus BioScapes® has sponsored a dynamic international photo competition that honors extraordinary microscope images of life science specimens captured through light microscopes, using any magnification, any illumination technique and any brand of equipment. Many of this year's winning images reflect the latest advances in neuroscience, cell biology, botany, zoology, and other sciences.

Consciousness Under the Scope

(Lucia Grossberger Morales, Abi Behar-Montefiore)

In addition to displaying images of the 2009 BioScapes® winners' tour, the Center for Consciousness Studies has prepared a looped video presentation to show at the Art & Technology Exhibit during the conference week. The video presentation will focus on images related to the TSC Conference themes (consciousness, awareness, brain, neuron, glia).

Following the Tucson TSC 2010 Conference, the Tucson display tour and video presentation will be hosted by the Arizona Health Sciences Library at the University of Arizona Health Sciences Center for a two-month display.

Meditations on Computer Patterns (Lucia Grossberger Morales)

[Abstract 323]

ART & TECHNOLOGY DEMOS SESSION 1

7:00 - 9:20 pm, TCC - Mohave

Chaired by Ro	obert Pepperell, Cardiff School of Art & Design
7:00 - 7:20 pm	Yesterday Was a Lie James Kerwin
7:20 - 7:40 pm	The Human Hologram Robin Kelly
7:40 - 8:00 pm	The Nonlocal Quantum Hologram Hasmukh Taylor
8:00 - 8:20 pm	Human/Computer Artistic Collaboration Lucia Grossberger Morales
8:20 - 8:40 pm	The Virtual SEER Tonietta Walters
8:40 - 9:00 pm	Aperspectival Geometric Art of Adi Da Samraj Gary Coates
9:00 - 9:20 pm	Vision Space: A New Form of Illusionary Space John Jupe

SESSION 2

	FRIDAY, April 16 7:00 - 9:20 pm, TCC - Mohave Chaired by Jim Laukes
7:00 - 7:20 pm	Higher States of Consciousness in Sport Damian Vaughn
7:20 - 7:40 pm	Music as a Transformative Tool Katherine Creath
7:40 - 8:00 pm	Sonification in Consciousness Kala Perkins
8:00 - 8:20 pm	Music as Counterpoint to Epilepsy Martha Curtis
8:20 - 8:40 pm	Sensory Awareness and Unsymbolized Thinking Russell Hurlburt
8:40 - 9:00 pm	Bioelectromagnetism as integrative art form Luis Miguel Girao

9:00 - 9:20 pm

Exploring the Relationship between Consciousness and Virtual Reality

Brian Betz

EXPERIENTIAL SESSIONS

Conference ID (no charge)
Hotel Arizona (HA)

Guided Meditation / PRANAHUTI

Tuesday, April 13	8:30 - 9:15 pm	HA - Ocotillo Room
Wednesday, April 14	7:30 - 8:30 am	HA - Ocotillo Room
Thursday, April 15	7:30 - 8:30 am	HA - Ocotillo Room

Yoga Asanas

Thursday, April 15	7:30 - 8:30 am	HA - Starlight Ballroom
Thursday, April 15	4:15 - 5:15 pm	HA - Starlight Ballroom
Friday, April 16	7:30 - 8:30 am	HA - Starlight Ballroom
Saturday, April 17	7:30 - 8:30 am	HA - Starlight Ballroom
Saturday, April 17	4:15 - 5:15 pm	HA - Starlight Ballroom

CLUB CONSCIOUSNESS

2010 - TSC - LATE NIGHT - CLUB CONSCIOUSNESS Leo Rich Theatre

CLUB 1 Tuesday, April 13

9:45 pm Robin Kelly, The Human Antenna 10:00 pm Jeff Warren, Wheel of Consciousness

CLUB 2 Wednesday, April 14

9:45 pm Vanda Mikoloski, Enlighten Up!
10:15 pm Chase Masterson, Song Stylings from Star Trek

CLUB 3 Friday, April 16

9:45 pm Máighréad Medbh, Twelve Beds for the Dreamer

10:00 pm Poetry Slam/Zombie Blues/Club Band:

Fort Awesome

TSC 2010 PRE-CONFERENCE WORKSHOPS

Registration: TCC Lobby

MONDAY, April 12 • 9:00 am - 6:00 pm TCC Meeting Rooms
Pre-Conference Workshops
Session 1, Session 2

TUESDAY, April 13 • 9:00 am - 1:00 pm

TCC Meeting Rooms

Pre-Conference Workshops

Session 3

SESSION 1 - WORKSHOPS

Monday, April 12 (9:00 am - 1:00 pm)

Tucson Convention Center (TCC) and Hotel Arizona (HA)

1	Selective Attention Christof Koch, Jeroen van Boxtel	TCC - Maricopa
2	Lucid Dreaming Stephen LaBerge	TCC - Mohave
3	Biofeedback and Mindfulness Keya Maitra, Connie Schrader	TCC - Coconino
4a	Transforming Consciousness Stanley Krippner, Frank Echenhofer et al,	TCC - Graham Part 1
5a	Psychedelics in the Mainstream Thomas B. Roberts, James Fadiman, Par	TCC - Greenlee

SESSION 2 - WORKSHOPS

Monday, April 12 (2:00 pm - 6:00 pm)

Tucson Convention Center (TCC) and Hotel Arizona (HA)

6	Neuroimaging of Meditation David Hubbard, Alarik Arenander	TCC - Maricopa
7	Neural Basis of Repression and Dissociation Heather Berlin, Michael Anderson	TCC - Coconino
8	Yoga Asanas Siegried Bleher	HA - Starlight Ballroom

9a Update on Microtubules and Quantum TCC - Mohave Biology

Stuart Hameroff, Jack Tuszynski et al, Part 1

- 4b **Transforming Consciousness** TCC Graham Stanley Krippner, Frank Echenhofer et al, Part 2
- 5b **Psychedelics in the Mainstream** TCC Greenlee *Thomas B. Roberts, James Fadiman, Part 2*
- 10a A Victorian's Guide to Consciousness HA Grand
 Pim van Lommel, Gary E. Schwartz Ballroom West
 et al. Part 1

SESSION 3 - WORKSHOPS

Tuesday, April 13 (9:00 am - 1:00 pm)

Tucson Convention Center (TCC) and Hotel Arizona (HA)

11	Global Broadcasting in the Brain Bernard J. Baars, Katharine A. McGovern	TCC - Maricopa
12	Why Synesthesia Matters Sean Day, Patricia Lynne Duffy et al	TCC - Gila
13	Experimenting with Endogenic Experience Talma Hendler, Abraham Zangen et al	TCC - Coconino
9b	Update on Microtubules and Quantum Biology Stuart Hameroff, Jack Tuszynski et al, Pai	
14	Philosophical Theories of Consciousness Joshua Weisberg, Uriah Kriegel	TCC - Greenlee
15	Imperience: Self-transformation Pranahuti Meditation K. Madhava, K. Mannur et al	HA - Starlight Ballroom
10b	A Victorian's Guide to Consciousness Pim van Lommel, Gary E. Schwartz et al, Part 2	HA - Grand Ballroom West

USING THE PROGRAM BOOK

Individual papers will be found in the abstracts section (p. 38) under the most relevant classification heading and also cross referenced under additional headings. The bold codes at the end of each abstract – e.g. C2 – refer to the program itself (indicating that this paper will appear in Concurrent Session 2. The Poster Sessions are categorized first by Section / Session.... P1-P6 belong to Poster Session A on Wednesday evening; P7-12 belong to Poster Session B on Friday evening. Presenting authors are listed in the Program; all contributing authors are listed in the Abstracts. There is an author index on p. 226.

POSTER SESSION A = P1 - P6

P1	Philosophy
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- P2 Neuroscience
- P3 Cognitive Science and Psychology
- P4 Physical and Biological Sciences
- P5 Experiential Approaches
- P6 Culture and Humanities

POSTER SESSION B = P7 - P12

- P7 Philosophy
- P8 Neuroscience
- P9 Cognitive Science and Psychology
- P10 Physical and Biological Sciences
- P11 Experiential Approaches
 P12 Culture and Humanities