

Knowledge of All



Think of Intuition Age attention as something that fills the present moment fully, encompassing the entirety of your sphere. It allows you to perceive any amount of time and space, any frequency or dimension, and any depth of understanding you need. Your attention matches the scope of your sphere and bring you the understanding of a complex pattern of information all at once via direct knowing.

*With spherical-holographic perception, everything you need to know is with you already. ... You aren't in a hurry because there is no future to reach, in which you will know more, so cramming multiple activities into one moment to know more, faster, seems silly—an artifact of a less dimensional era.
~Penney Peirce*

"Whether you call it the Enlightened Age, the New Golden Age, or the Intuition Age, the new age that is coming, that is already dawning, is definitely an age of greater knowledge. But for those who are now overwhelmed by the overload of data modern technology has brought us, data that often has only a little knowledge buried within it, the good news is that won't be a problem in this new age."

< [Read the entire blog online at spiritsun.net.](http://spiritsun.net) >

by Harold Boulette

Neuromathematics of Consciousness: Tour of Consciousness, Week 11

Week 11



This week's presentations are by Cristof Koch, a neuroscience researcher and professor who has taught in Zurich, Jerusalem, Seoul, and currently works at Cal Tech. He also held a position at MIT for four years, and in 2013 spent a week with the Dali Lama.

Cristof had a long-term relationship with Francis Crick, who won the Nobel Prize as codiscoverer of DNA. Together, in a father-son type friendship, the two men investigated "consciousness" for over two decades. The pair was so close that on the last day of Crick's life, as he lay bedridden in a hospital, he hallucinated that he was in conversation with Koch on their recent work. Cristof once remarked on that

episode, with tears in his eyes, struggling to contain his emotions, “[Crick] was a scientist to the very end.”

In his book *Consciousness: Confessions of a Romantic Reductionist*, Koch writes, “Consciousness is a fundamental, an elemental, property of living matter.” Like Susan Greenfield (see week 9), Koch is a fast-paced speaker. So, there are two talks, similar in nature, with the second talk delving into more detail. Among other ideas, Koch speaks about the work of Giulio Tononi and his theory of integrated information and at 29:28 in the first lecture Koch remarks,

“So, essentially each of your experiences, ultimately, in this theory is sort of, um, this geo-trope, this high-dimensional poly-trope in a very, very, high dimensional space. The theory says, ultimately, this equity is; this is the essence of consciousness.”

The Neurobiology of Mathematics of Consciousness, Cristof Koch, Oct 24 2011: 58 minutes.

<http://www.youtube.com/watch?v=6i9kE3Ne7as>

The Integrated information theory of consciousness; Christof Koch, Oct 4 2014: 1 hour 17 minutes

<http://www.youtube.com/watch?v=LGd8p-GSLgY>

Roger N. Shepard could be considered the Isaac Newton of Cognitive Science. Unlike many scientists he finds it useful to employ geometric explanations rather than calculus. It was not usual for him to have hypnopompic (semi-dream state) visions of geometric forms. I could find no videos concerning his work. The article is based on a talk he gave in 2002, and is technical at times but worth the read.

How a cognitive psychologist came to seek universal laws;
Roger N. Shepard, Psychonomic Bulletin & Review February
2004, Volume 11, Issue 1, pp 1-23, an article based on the
keynote address presented at the November 2002 meeting of the
Psychonomic Society in Kansas City.

<http://link.springer.com/article/10.3758/BF03206455#page-1>

by Michael McIntyre

< WEEK 12 >

Awaken at Any Age



If the base of a felled tree that has grown old in earth and rock “will bud at the scent of water ... like a young plant” (Job 14:9), it is also possible for us to be awakened by the power of the Holy Spirit and to flower with the incorruptibility that is ours by nature, bearing fruit like a young plant, even though we have fallen into sin. Sometimes our soul grows despondent at the huge swarm of its sins and temptations, and says, ‘Our hope is gone and we are lost’ (Ezek. 37:11.LXX). Yet God, who does not despair of our salvation, says to us: ‘you shall live, and you shall know

that I am the Lord' (Ezek. 37:6). To the soul that doubts how it can ever give birth to Christ through great acts of holiness, these words are said: "The Holy Spirit shall come upon you" (Luke 1:35). ~The Philokalia

"I once cut down a tree in the back yard of the house where I was living in Virginia. There were just too many trees there and that one didn't seem to be getting much sunlight. But after I cut it down, it quickly started to regrow sending out new shoots from the top of the stump. I decided if it was that determined to grow, I should leave it do so.

"During a drought, trees in some places may dry up and die and fall over. Other may be knocked over by hurricanes and tornadoes or burned down in forest fires. Yet when the conditions are better, some of them will grow again. In desert areas, some flowers and plants have adapted to the environment to the extent that they can become dormant for several years if necessary, then grow green, blossom, and produce seeds in a matter of a few days, or even hours when a rare rain occurs.

"Some people become spiritual at a fairly young age, and that is just fine. Others, however, do not see the value of it until they are in their fifties, sixties, or even older."

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by Harold Boulette

Orch-OR: Quantum Consciousness: Tour of Consciousness, Week 10

Week 10



In week 10 we hear from Stuart Hameroff, who along with his partner, has developed a testable model for measuring consciousness as “qubits,” which when collapsed by a quantum gravity event can trigger tiny proteins within a neuron. They call the model Orch

OR. These proteins have a digital processing characteristic that imprint thousands of engrams within the neuron; collectively, millions of these engram events have the potential to translate the “quantum wave of consciousness” into a collective neural episode, which becomes the physiological representation of “a thought.” This week’s videos present some of the work of Hameroff and Nobel-Prize candidate Richard Penrose, who together developed the Orch OR model. Hameroff is an anesthesiologist. Penrose is a British mathematician. The following are some excerpts from an article posted on Science 2.0 on February 2, 2014, concerning the Hameroff/ Penrose Orch-OR model:

“The origin of consciousness reflects our place in the universe, the nature of our existence. Did consciousness evolve from complex computations among brain neurons, as most scientists assert? Or has consciousness, in some sense, been here all along, as spiritual approaches maintain?” ask Hameroff and Penrose in the current review. “This opens a

potential Pandora's Box, but our theory accommodates both these views, suggesting consciousness derives from quantum vibrations in microtubules, protein polymers inside brain neurons, which both govern neuronal and synaptic function, and connect brain processes to self-organizing processes in the fine scale, 'proto-conscious' quantum structure of reality."

"The evidence now clearly supports Orch OR," they claim. "Our new paper updates the evidence, clarifies Orch OR quantum bits, or "qubits," as helical pathways in microtubule lattices, rebuts critics, and reviews 20 testable predictions of Orch OR published in 1998—of these, six are confirmed and none refuted."

Stuart Hameroff, "Fractal Consciousness and Orch OR," University of Arizona Consciousness, February 17, 2013: 62 minutes.

<http://www.youtube.com/watch?v=yp20eWejD6Q>

Stuart Hameroff, "How Does the Brain Produce Consciousness?" Psychiatry Grand Rounds, January 8, 2003; posted on June 4, 2011: 58 minutes.

<http://www.youtube.com/watch?v=Fb-5Pb9qmPE>

by Michael McIntyre

The Blinders of Materialism



“With spherical-holographic perception, measuring attention isn’t important. You’re more interested in being responsive to the Flow ... You don’t need to focus a long time since full awareness occurs in each moment. Therefore, you don’t need to use intention. ... With spherical-holographic attention, you notice an idea you want to understand or materialize without having to attach special force to it. Instead of the hard focus of intent, you simply “be with” the idea softly. ... When an idea is on your wavelength, it remains alive in your field without you having to grip it to keep it in place. ... With a softer, more expansive focus, you notice that your personal field itself is paying attention, that your soul is continually paying attention to creating your reality in the best possible way.” ~Penney Peirce

“You often see horses and donkeys wearing blinders, especially in urban areas. This is intended to keep the animal focused on the path in front of him and not get distracted or frightened by things off to the side. This may be a useful thing to do with these animals under the conditions found in a crowded city as long as there is someone controlling them who is not wearing blinders. Otherwise, the horse may be heading forward blissfully unaware that a runaway car is approaching from the side and about to hit him!

“The same is true of people who wear blinders. Of course, the blinders we wear are not so literal and not so obvious, but they are just as effective and just as dangerous.”

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by Harold Boulette

The Labyrinth of Matter



Much of the information concerning the rituals of the higher degrees of the Egyptian Mysteries have been gleaned from an examination of the chambers and passageways in which the initiations were given. ... Labyrinths were also a striking feature in connection with the Rites of Serapis, and E. A. Wallis Budge, in his Gods of the Egyptians, depicts Serapis (Minotaur-like) with the body of a man and the head of a bull. Labyrinths were symbolic of the involvements and illusions of the lower world through which wanders the soul of man in it's search for truth. In the labyrinth dwells the lower animal man with the head of the bull, who seeks to destroy the soul entangled in the maze of worldly ignorance. In this relation Serapis becomes the Tryer or Adversary who tests the souls of those seeking union with the immortals.

The Gnostic Mysteries were acquainted with the arcane meaning of Serapis, and through the medium of Gnosticism, this god became inextricably associated with early Christianity. ~Manly P. Hall

"Most of us are familiar with walking a labyrinth as a religious or spiritual ceremony intended to help one awaken spiritual faculties, or to understand the spirit world better, but I have never heard an explanation of this that made much sense to me until I read this one."

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by Harold Boulette

Neuroscience of Consciousness: Tour of Consciousness, Week 9

Week 9



This week includes two talks by Baroness Susan Greenfield, a professor of synaptic pharmacology (chemistry of brain neurons) who has also been awarded 28 honorary degrees. She has an extraordinary talent for translating ideas into vivid language. Using examples of everyday experiences she brings us into the world of neuroscience and consciousness. In the last minutes of the second lecture she suggests the possibility of consciousness as being a quantum event that somehow becomes measurable neural activity. Could such a thing be feasible?

Two lectures by Greenfield are included because her topic is somewhat dense and warrants a second viewing. Both talks are similar in content, but the second talk is more detailed.

Baroness Susan Greenfield, "The Neuroscience of Consciousness," November 28, 2012: 86 minutes.

http://www.youtube.com/watch?v=k_ZTNmkIiBc

Baroness Susan Greenfield, "How Does the Brain Generate Consciousness," September 19, 2010: 64 minutes.

https://www.youtube.com/watch?v=WN5Fs6_02mY

by Michael McIntyre

< WEEK 10 >

Gatekeepers: Perception, Attention, and Memory: Tour of Consciousness, Week 8

Week 8



Brain Study: If you can read this, you have a strong mind (so it is said, anyway):

7H15 M3554G3 53RV35 70 PR0V3 H0W 0UR M1ND5 C4N D0 4M4Z1N6
7H1NG5! 1MPR3551V3 7H1NG5! 1N 7H3 B3G1NN1N6 17 WA5 H4RD, BU7
N0W 0N 7H15 LIN3 Y0UR M1ND 1S R34D1NG 17 4U70M471C4LLY W17H
0U7 3V3N 7H1NK1N6 4B0U7 17, B3 PROUD! 0NLY C3R741N P30PL3 C4N
R34D 7H15.

In week 8 we look at a variety of topics, including perception, attention, and memory. The first eight weeks in this series are an introduction to the many fields of research that address “consciousness”; these have been constructed so you may better appreciate and understand the presentations in weeks 9 through 12 that investigate “consciousness” in a more sophisticated manner.

The Ellen Show, “Hosts of ‘Brain Games’ Trick Our Staff,” January 2, 2011: 5 minutes (These examples were actually clinical studies before becoming popular staged performances).

<https://www.youtube.com/watch?v=SAmhLLtN8qw>

V. S. Ramachandran, “Three Clues to Understanding Your Brain,” TED Talks, March 2011: 24 minutes.

http://www.ted.com/talks/vilayanur_ramachandran_on_your_mind

R. Beau Lotto, "Optical Illusions Show Us How We See," TED Talks, July 2009: 14 minutes.

http://www.ted.com/talks/beau_lotto_optical_illusions_show_how_we_see?language=e

Neil deGrasse Tyson, "How Does the Brain Work?" *NOVA*, April 19, 2012: 53 minutes.

<https://www.youtube.com/watch?v=iWg0cWFQiiY>

National Geographic, "Tap into Your Brain's Stored Power: A Three Minute Experiment," February 17, 2014: 3 minutes.

<https://www.youtube.com/watch?v=QelK8rDrbpM>

Daniel Kahneman, "Two Systems of the Mind," March 19, 2012: 30 minutes.

<https://www.youtube.com/watch?v=k4hqvMYBB1c>

Nobelprize.org, The Mystery of Memory, documentary, October 26, 2011: 30 minutes.

<https://www.youtube.com/watch?v=4sWnkBf5V7s>

Travis, "5 Synesthesia Videos: Sensory Interplay Relay," April 2014: 20 minutes.

<http://www.synesthesiatest.org/>

ASAPScience, "Brain Tricks: This Is How Your Brain Works,"
January 31, 2013: 5 minutes.

<https://www.youtube.com/watch?v=JiTz2i4VHFw>

by Michael McIntyre

< [WEEK 9](#) >

Mystics, Mysticism and Reality



Mysticism is the art of union with Reality. The mystic is a person who has attained that union in a greater or lesser degree; or who aims at and believes in such attainment.

It is not expected that the inquirer will find great comfort in this sentence when first it meets his eye. The ultimate question, 'What is reality?'—a question, perhaps, which never occurred to him before—is always forming in his mind; and he knows that it will cause him infinite-distress. Only a mystic can answer it: and he, in terms which other mystics alone will understand. Therefore, for the time being, the practical man may put it on one side. All that he is asked to consider now is this: that the word 'union' represents not so much a rare and unimaginable operation, as something which he is doing, in a vague, imperfect fashion, at every moment of his conscious life; ... ~Evelyn Underhill

"I think that very short definition of mysticism is such a great one, as is the definition of a mystic that follows it. We can find rather complicated definitions elsewhere that are open to interpretation. It is often defined as "union with the Deity" but what Deity? Different people have different ideas of God, different beliefs of how God behaves, and different ideas of how to become one with this Deity."

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by Harold Boulette

“Cognitive Anthropology, Part 1”: Tour of Consciousness, Week 7B

Week 7B



Two thousand years ago Jews would stone a person for working on the Sabbath. By comparison, in the 21st century, people are being criminally charged for the abuse and killing of domestic animals. A seven-year-old child in Western culture today can do math problems using zeros; a concept unfathomable 1,500 years ago and that child would have been celebrated as being beyond genius. Many expressions of music, art, and architecture from the past century would be virtually indigestible for anyone living 700 years ago.

A new science lies on the horizon that suggests that humans are evolving in a fashion not apparent by any biological display. Cognitive anthropology is the study of cognition to identify conscious peculiarities between cultures, past or present, and peripherally includes inter-species investigations of humans, primates, dolphins, birds, canines, rodents, even lizards, ants, and bees.

Carl Jung made a good case for cognitive anthropology, although a bit wishful, long before the science was born, stating, “The differing degrees of self-knowledge within [humankind’s] own species are of little significance compared with the possibilities which would be opened out by an encounter with a creature of similar structure but different

origin. . . . The possibility of comparison and hence self-knowledge would arise only if [humankind] could establish relations with quasi-human mammals inhabiting other stars.” (The Undiscovered Self, rev. trans. by RFC Hull, 1958, paragraphs 526 and 525.

Like all previous weeks in this tour, this is just a brief introduction, and the citations are only a whisper compared to all volumes on the subject.

PART B

Wade Davis, “The Wayfinders: Why Ancient Wisdom Matters in the Modern World,” Garrison Institute, June 20, 2013: 40 minutes.

<https://www.youtube.com/watch?v=XuJsbjKKh3E>

Marcus du Sautoy, “History and Wonders of Ancient Indian Mathematics,” BBC, *The Story of Maths*, posted January 28, 2014: 19 minutes.

<https://www.youtube.com/watch?v=1FcH33Cuj8w>

G. W. Domhoff, “A New Neurocognitive Theory of Dreams,” *Dreaming*, vol. 11, (2001), pp. 13–33. In the fourth paragraph of this article, which summarizes the study, Domhoff makes this statement: “Dreaming is a cognitive achievement that develops gradually over the first 8 or 9 years of life.” This statement set off a spark in the dream research community to address the possibility that dream awareness or attentiveness may be a cognitive evolutionary skill; that is, one that evolves. Available online at

http://www2.ucsc.edu/dreams/Library/domhoff_2001a.html

Tim Post, "Lucid Dreaming," TEDx at TwenteU, November 5, 2013: 14 minutes.

<https://www.youtube.com/watch?v=0K3SfNxbK3Y>

Susan Blackmore, "Meme Machine," published by Karol Jalochocki, September 17, 2013: 8 minutes.

<https://www.youtube.com/watch?v=305dBgu3Iz4>

by Michael McIntyre

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