Oxford Roundtable on the Three Cultures: Humanities-Literature, Religion and Science

# Psychology's Use and Representation of the Three Cultures in Understanding Human Nature: History, Perspectives and Portraits

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### Overview

- Three Cultures: Controversy and Tension
  - Psychology as a Separate Science
    - Recognition as a Science
  - Paradigm, Methodology and Scope
    - Historical Evolution
  - Perspectives, Schools and Subfields
    - Portraits of Scientists
    - Implications for the Future

### Two Cultures--Now Three

• C. P. Snow

The Two Cultures

C.P. SNOW



Jerome Kagan



The Three Cultures

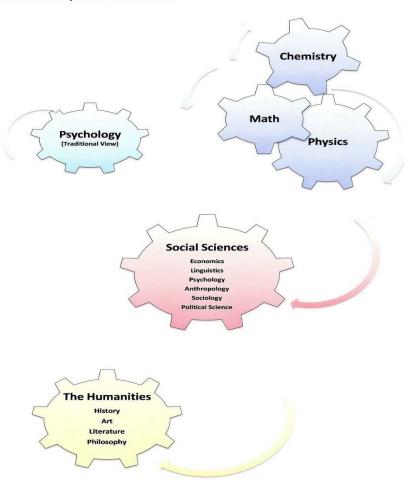
Natural Sciences, Social Sciences, and the Humanities in the 21st Century

JEROME KAGAN

Revisiting C. P. Snow

### Hierarchy of the Three Cultures

Figure 1.1 Hierarchy of the Three Cultures



## State of Psychology



- Regained Recognition as a Science
  - Interdisciplinary and Global
    - A Collaborative Science
      - No Rigid Paradigm
- Multiple Methods and Approaches



# Historical Evolution and Interdisciplinary Focus

And Contributions of Interdisciplinary Scientists and Philosophers

### **EARLY EGYPT TO RENAISSANCE**

### Figure 2.1 Historical Contributions to an Integrated Psychology

\* Hermes Trismegistus- Scribe of the Gods-Wisdom, Astrology, Alchemy- The Kyballor

### **Early Greece**

- Homer-Literature & Psychology-Iliad and Odyssey
   Sophocles-Major Tragic Poet-Oedipus the King
- Thales-Philosophy, Physics, Math; Nature of Matter
   Heraclitus-Nature of Knowledge-Essence of Things
- Alcmaeon-Physician; Brain Seat of Thought
   Pythagoras-Philosophy- Math; Theorem-Body & Soul
- . Democritus-Atomic Theory of Universe
- Hippocrates-Medicine; Theory of Humors/Disease/Temperaments
   Socrates-Philosophy; Socratic Questioning-Moral Development
- Plate-Philosophy; 3 Aspects of the Psyche-Neuroscience of Knowledge-Ability to Reason

### **Early Greece**

- Aristotle-Philosophical Psychology-Metaphysics- Botany- Zoology-Biology-Anatomy-Sensation-Perception-Cognitive Psychology; Theory of Fine Arts
- Theophrastus-Botany-Religion-Politics-Education-Rhetoric-Math-Astronomy-Logic-History-Ethics- Psychology- Meterology; Personality Sketches-Physiological Psychology-Characters
- Herophilus-Anatomy; Brain Center of Nervous System and Intelligence-Tendons from Nerves
- · Erasistratus-Anatomy-Physiology; Nervous system (arteries, veins, nerves)-
- Pneuma-Motor and Sensory Nerves
- · Galen-Philosophy-Medicine-Anatomy-Physiology; Theory of Four

Temperaments

### **Patristic Period**

- Known as the Period of the Church Fathers
- Origen-Theology; Leader of the Church-Teachings of Jesus-Christian Theology into Psychology
- Plotinus-Philosophy; Morality & Ethics-Mystical Union-Supernaturalism
- •St. Augustine-Philosophy-Theology;Incorporated Christian Doctrines in Psychology-Redefinition
- St. Thomas Aquinas-Theology-Philosophical Psychology-Moral
- Theology;Immortal Soul Peter of Spain-Medicine-Theology-Logic; Compendium of Medicine-DeAnima-

History of Psychology

### Renaissance Period

- René Descartes-Languages, Math, Humane
- Letters, Physics, Ethics, Logic, Metaphysics; Mind & Body Separate
- Gottfried Leibniz-Philosopher-Scientist-History-Logic-Law; Theory of the Monad-Inventor of Calculus

### GREAT BRITAIN TO DARWIN

### Figure 2.1 Historical Contributions to an Integrated Psychology

### Great Britain: Empiricism, Associationism & Mechanism

- Sir Isaac Newton-Physics; Spectrum of Color from White Light-Sensation and
- Vision-British Empiricism-Physical Nature, Material Particles, Motion
- Thomas Hobbes-Political Philosophy. Human Nature-Social Conduct-Matter in Motion-Nervous System
- John Locke-Greek Rhetoric-Moral & Political Philosophy-Chemistry-Meteroology-Medicine; Human Understanding-Elements of Mind
- . George Berkeley-Theology-Math-Physics-Morals-Economics-
- Medicine; Mentalism, -Vision-Depth Perception
- James Mills-Theology, Economics. Journalism, History; Sensations & Ideas Primary to Mind
- John Mills-Philosophy-Economics-Politicaal Science-Psychology; Mental Chemistry
- Julien Offray de La Mettrie-Fine Arts, Theology, Medicine; Natural History of the Soul

### The Scottish Realists and The German Idealists

- Thomas Reid-Minister-Philosophy-Faculty Psychology; Faculty of the Soul-Faculties of Mind-Human Thought
- Thomas Brown-Philosophy-Literature-Medicine; Observartions on the Zoonomia of Erasmus Darwin-Philosophy of the Human Mind
- · Immanuel Kant-Philosophy; Reason and the Laws of Mental Functioning, Anthropology
- Johann Herbart-Philosophy; Defined Psychology as a Science based on Experience,
- Metaphysics and Mathematics-Interference in Learning
- Kant and Herbart contributed to psychology becoming a separate science from philosophy

### Physiology, the Allied Sciences, Psychophysics and Experimental Psychology

- Phrenology-the science of character and morphology of the skull
- Pierre Flourens-Performed experiments on the functions of the brain.
- Paul Broca-Medicine-Physical Anthropology; Brain Impairments in Frontal Lobe of Brain-Speech Impairments-Aphasia
- Herman Von Helmholtz-Physics-Hydrodynamics-Electrodynamics-Meterological Physics; Neural Physiology-Theory of Color Vision
- Gustav Fechner-Physiology-Physics-Philosophy-Art; Psychophysics-Difference Threshold-Fechner's Law
- Wilhelm Wundt-Medicine-Physiology-Experimental Psychology; Introspection-Experimental Methodology-Philosophical Studies-Structuralism-Content Psychology

### **Darwinian Evolution and Psychology**

- Charles Darwin-Medicine-Theology-Natural Science
- Published On the Origin of Species; The Descent of Man and Selection in Relation to Sex; The
- Expression of the Emotions in Man and Animals.
- Predicted new role for Psychology
- Influenced psychological thought and methodology
- Pioneered the field of Evolutionary Psychology
- Made impact on Biology, Physics, Philosophy, Religion, Linguistics and Literature, and Eugenics

### Individual Differences and Measurement

- · Sir Francis Galton-Anthropology-Heredity-Meterology
- · Brought union between psychological methods of measurement and theory of evolution
- Psychology of Individual Differences
- Published Hereditary Genius and Inquiries into Human Faculty and its Development
- Developed Statistical Procedure of Correlation
- Originator of Mental Tests

# Perspectives

Schools and Subfields Embracing Integrated Analyses

### Evolutionary Psychology

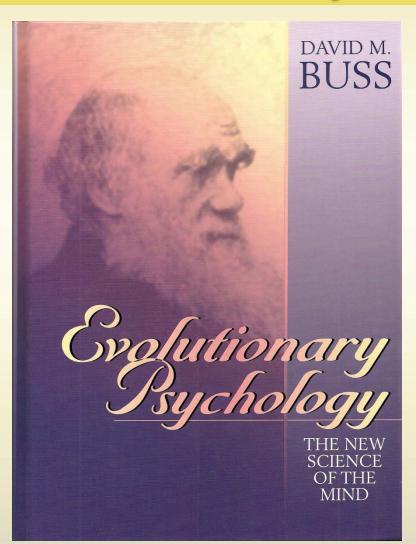
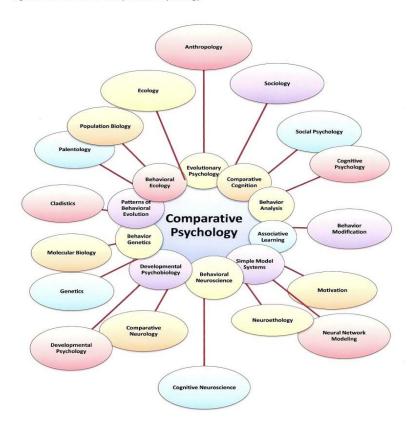


Figure 3.1 Evolutionary Psychology and its Interdisciplinary Focus



### Comparative Psychology

Figure 3.2 Overview of Comparative Psychology



### COMPARATIVE PSYCHOLOGY

Evolution and Development of Behavior



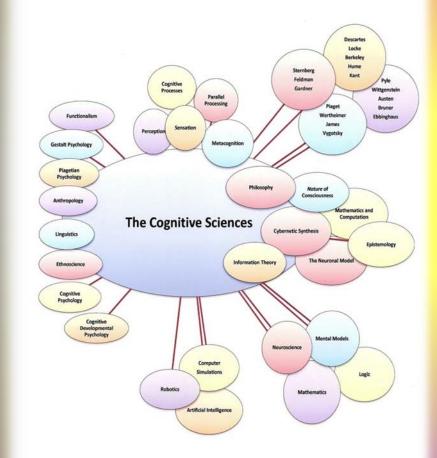
MAURICIO R. PAPINI

A History of the Cognitive Revolution

### Howard Gardner

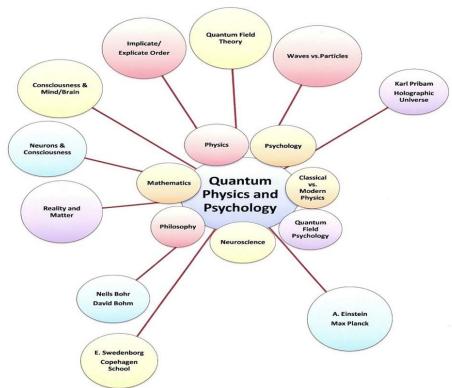
WITH A NEW EPILOGUE BY THE AUTHOR: Cognitive Science After 1984

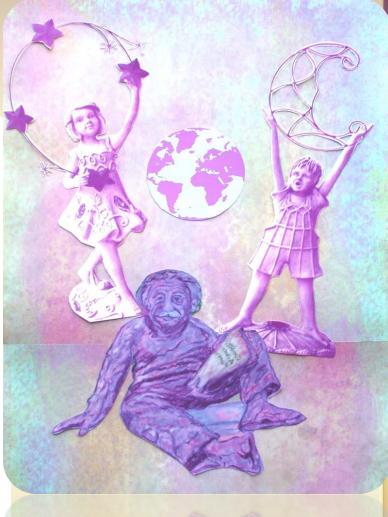
Figure 3.3 Overview of the Cognitive Sciences



### Quantum Physics

Figure 3.4 Overview of Quantum Physics and Quantum Psychology





### Energy Medicine

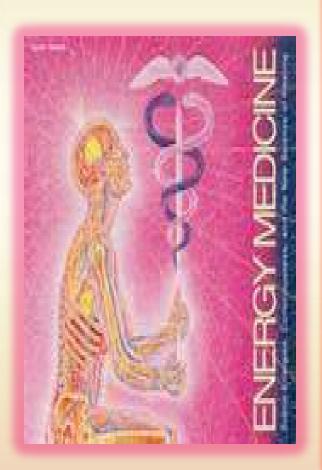
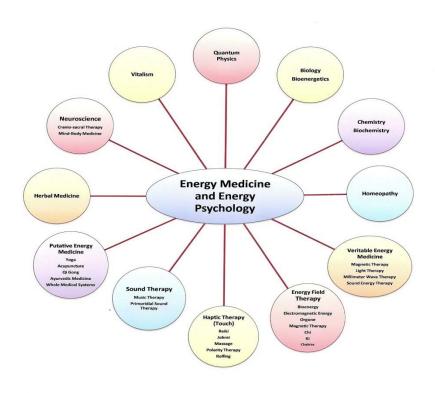


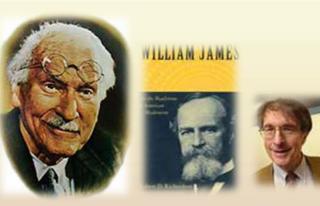
Figure 3.5 Overview of Energy Medicine and Energy Psychology

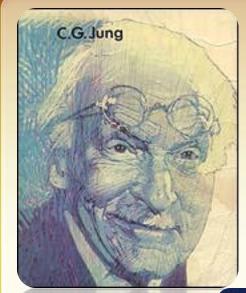




### Portraits

Psychological Scientists Using Integrated Approaches



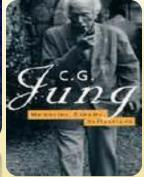


# Carl Jung

"A Healer of Souls and Culture"







### Jung: An Integrated Psychology

### **Collected Works**

- Analytical Psychology
- Development of the Personality
- Psychiatric Studies
- Psychoanalysis
- Psychogenesis of Mental Disease
- Symbols of Transformation
- Psychological Types
- Experimental Researches
- Structure and Dynamics of the Psyche

- Aion: Researches into the Phenomenology of the Self
- The Spirit of Man, Art and Literature
- Psychology and Religion
- Psychology and Alchemy
- Alchemical Studies
- Mysterium Conunctions
- The Symbolic Life

### Many other works

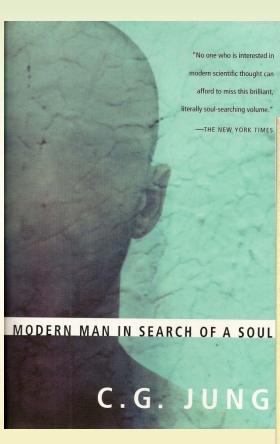
- Man and his Symbols
- Modern Man in Search of a Soul
- Seven Sermons to the Dead

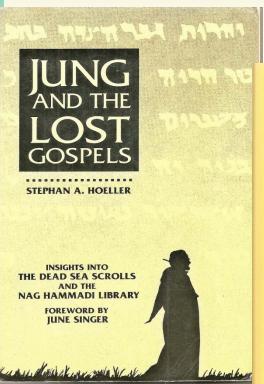
• GNOSTICISM

### **WORLD RELIGION**

**•THE NAG HAMMADI TEXTS** 

**•THE OCCULT** 





THE GNOSTIC JUNG and the Seven Sermons to the Dead

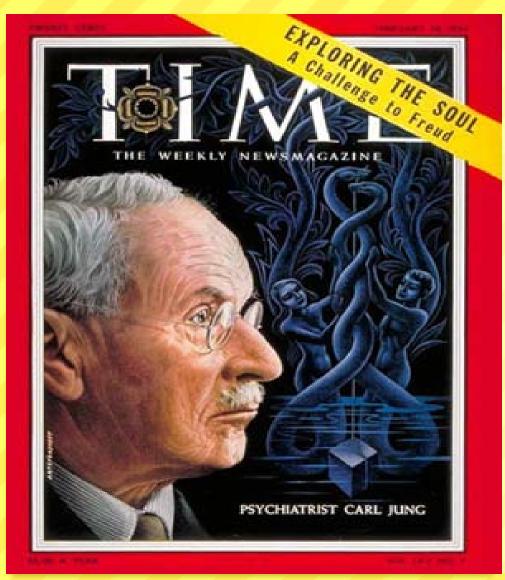
STEPHAN A. HOELLER

### Jung & Alchemical Studies

• Equated to the alchemical process and transformation that takes place in man's psyche and evolution.



Mandala by Carl Jung- "The Alchemy of the Renewal"



Time Cover: February 14, 1955-"Medicine: The Old Wise Man"

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"Artists, literary scholars and psychology will always have to turn to each other for help.

Arts and literature convey the contents of consciousness."

### Jung on Art and Literature

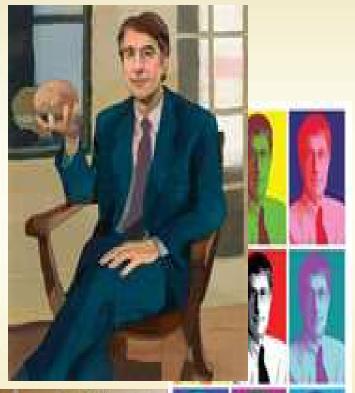


**Mandala by Carl Jung** 

# WILLIAM JAMES In the Maelstrom of American Modernism Robert D. Richardson

- The Varieties of Religious Experience
- The Sick Soul
- The Healthy-Minded Soul
- The Theory of Emotion

### Howard Gardner







- •Theory of Multiple Intelligences
- •Art, Mind & Brain
- Project Zero
- •Good Work Project
- •5 Minds for the Future
- •Extraordinary Minds
- •Ethical Responsibilities of Scientists
- •Interdisciplinary Study
- Preparation for a Global World

### Future Directions

- Separate Science
- Improved Methodologies
  - Improved Technology
- Multidisciplinary Teams
  - New Training Mandates
- Growing Careers and Demand

### To download the full paper go to King's Psychology Network: <a href="https://www.psyking.net">www.psyking.net</a>

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