



BRIEF INTRODUCTION TO THE ISYS MODEL

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Background

Hundreds of millions of dollars are being spent every year to discover, test, and market new drugs that intervene in the neural pathways of the brain. The intent is to correct pathological behaviors. Meanwhile, throughout the planet new technologies are emerging in what is called alternative medicine. Many of these technologies also alter brain function but do so without the ingestion of potentially harmful chemical agents. Both approaches are valuable and can be complementary. The fact that they arise out of competing and conflicting belief systems limits their benefits to society. As a consequence, for example, a bipolar patient being treated by a traditional psychiatrist will be prescribed (with hope) one of several drugs, all having undesirable side effects. It is unlikely that attempts will be made to investigate the potential of alternative approaches such as Neurofeedback. The financial impact of this neglect on the nation's social service and medical requirements is almost unimaginable.

Money,
healing and
Drugs

On the other hand the seeming magical appearance of a flood of new alternative healing technologies has its dilemmas. At present the only way an individual with a medical problem can select from this array of technologies is by random experimentation. Luck, trust and intuition are key ingredients in the mind of the needy.

Alternative
Methods

Although many no longer seriously question that a person's conscious state is intimately related to his or her physical condition and that the brain is a critical mediating component in establishing an individual's well being, how this happens is not yet fully understood. In fact, terms such as consciousness, mind and soul are not precisely defined. In many settings these words are used as synonyms or interchangeably. Such definitions would allow these human attributes to be seen as interacting but mutually distinct agents. However, there does not exist a theory or a model that offers such precision. Neither Freud nor Jung deal extensively with brain physiology; and they couldn't agree on the meaning of consciousness. Cognitive theorists have little if any interest in the mind-body relationship while physiologists and psychiatrists studying brain function do not distinguish between mind and consciousness. Mystics get so involved with the reality of consciousness that they tend to ignore the reality of the brain.

Mysteries of
the Mind

The overall result of these fragmented and limited approaches is that they collectively lack the capability to guide our power to heal -both as individuals and societies. Thus, the flood of marvelous new healing practices are sporadically applied to our wounded selves in a hit and miss manner. The billions of dollars poured into health care captures our imagination because it is the arena where human frailty is made most immediately and painfully visible. The potential and real waste in the fields of education and social service deserve equal consideration because of their possible impact on the prevention of human maladies, individual and collective.

Fragmentation

A Solution

Consciousness
redefined

The ISYS (identity systems) MODEL is an organized conceptual framework that will enable us to make testable predictions regarding the behavior and interactions of the body, the brain, the mind, identity and consciousness. One outcome predicted by the ISYS model is the detection and measurement of the life force associated with Consciousness and Individuality in an experimental setup. The Model combines developments in quantum physics, mathematics, new research instrumentation with advances in Mind-Body-Brain research incorporating a language involving over 200 clearly defined terms required in its construction.

Top-Down vs.
Bottom-Up

The ISYS model is a "top down model" because it postulates consciousness as a fundamental property of nature. The ISYS Model will be able to simulate the processes by which a general, non-individuated consciousness expresses itself in the human individual showing how its expression is sustained by and integrated with the body, mind, and brain. The ISYS model's "top down" approach contrasts sharply with the "reductionist" approach which has dominated scientific research in the 20th century especially in the fields of neurophysiology, neuropsychology, psychology, and pharmacology. The prevailing bottom up approach defines consciousness as an emergent property of the brain. According to this view, consciousness and individuality are regarded as byproducts of the brain's chemistry and neural circuitry. This implies that consciousness is necessarily secondary to matter and contingent upon material processes. According to the current scientific model consciousness has no independent existence, no evolutionary direction, and no sanctity.

Explore,
Expand and
Unify

The ISYS model avoids these pitfalls. It further provides a basis for expanding the effectiveness of alternative medicines and therapies and offers a very precise and sophisticated vocabulary that can be used to unify and integrate traditional, alternative and conventional therapies and practices. In addition, researchers can derive from the ISYS model hypotheses which can be subjected to experiments designed to further explore the relationships between consciousness and brain, brain and body, and identity and behavior.

A New
Paradigm

Because the ISYS model focuses upon interactions between consciousness and mind or mind and brain, it goes much deeper than Freudian or Post Freudian psychoanalytic models (IE., Jung, Adler, Rank). It neither conflicts nor opposes these approaches. Rather, it provides a new paradigm within which many of the conflicts and arguments between various psychoanalytic arguments may be resolved. In addition, it resonates perfectly with the principles of the great religions, spiritual teachers, and the wisdom traditions of many cultures. In doing so it can be a powerful tool in guiding the work of educators, counselors, scientists and philosophers

ABOUT THE ISYS MODEL

ISYS stands for **I**ntity **S**ystem. ISYS is a model of the **I**NDIVIDUAL. It is a model not in the sense of "some ideal man". It is a model in the sense that it will be able to keep track of (simulate and predict) what is happening in the make-up of one individual as his **I**DENTITY develops through time. And indeed, the body, the brain, the mind and **C**onsciousness furnish the four vertebrae from which the skeleton of whom and what we are is actually built. Experience is required for the construction of **I**DENTITY to actually happen. The body, the

brain, the mind and Consciousness furnish the architectural foundations and the ingredients that allow experience to happen.

ISYS is a model because it is designed to represent the structure of the reality of Identity. This tool will be able to describe WHERE you are in the process of your life. This model is not an IDEAL. I do not want to make you look like the model. This model is not something for you to emulate. This model is a tool that can SIMULATE you, so that you can be described by it. And it can also STIMULATE you because in that description you can see yourself, come to know yourself and BE, DO and HAVE all that you can BE, DO and HAVE - living and loving your life to the fullest of its potential.

The **ISYS MODEL** is a three dimensional isomorphic representation of the nature of the Brain, the Mind and Consciousness. This means that since the ISYS Model is a map then every point in the map has its corresponding point in the territory of reality. ISYS is not an analogy: it does not merely suggest reality. ISYS is a model because it can **simulate** the reality it represents.

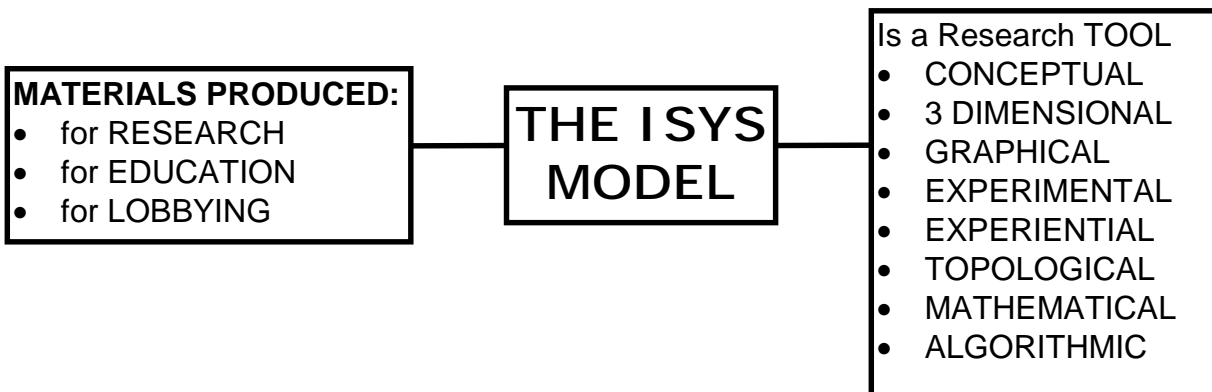
The ISYS model simulates the structures and processes by which consciousness interacts with the mind, body and brain to produce a human individual.

The ISYS MODEL also depicts the mind as a map in two very distinct manners and in both ways the model is isomorphic:

1. the mind as a **TOPOGRAPHICAL map**, meaning a graphical layout of the intricate structures and mechanisms that are embedded deep within the fabric of that space we call the MIND. This approach allows us to understand the MIND as a general phenomenon.
2. the mind as a **CARTOGRAPHICAL map**, meaning a graphical layout that depicts the particular terrains and territories of your **OWN MIND**. This approach will allow us to plot the trajectories of your life as your life deploys itself from within your individual mind.

It is further proposed that the ISYS MODEL is an emerging paradigm -with which other people will construct a civilization for the 21st century. ISYS has required 25 years to elaborate. It will now require the rest of a life time to test its validity and to adjust its descriptions to precision.

Because of all of the above considerations the ISYS MODEL is a **TOP / DOWN APPROACH** - a tool for the scientific study and research of the brain. And this is exactly the manner and the field in which we intend to test the validity of the ISYS MODEL.



While the ISYS model has many important scientific applications it also provides a precise vocabulary and a body of heuristics for use in the design and implementation of programs fostering growth, self-realization, empowerment, and transformation. In addition, it holds forth the promise of providing a way to represent and validate transformational and therapeutic technologies and techniques within a conceptual framework accessible to a non-reductive science of consciousness.

Besides the theoretical and experimental research still to be done; there are other main fronts in which the ISYS MODEL has very powerful applications, explications and implications:

1. The field of a Technology for Self-knowledge
2. The field of Education and Performance
3. The field of Therapy and Healing
4. The implications in Genetics
5. The implications in Physics
6. The implications in Mathematics
7. The implications in our understanding of the Kirlian phenomenon

In the **field of Self-knowledge** we plan to use the EEG Technology, now available in the market, to thoroughly understand the EEG behavior of the brain and to test the validity of the Model in **clinical** and **experimental** setups.

These instruments will allow us to develop the adequate protocols to monitor and supervise the brain transformations that occur when a human being enters the process of SELF-KNOWLEDGE or resists entering it.

Later, we plan to use the Functional Magnetic Resonance Imaging Technology to both understand the Blood Activation behavior of the brain and the role the mind plays in this neurovascular behavior.

Subsequently, we plan to use the MagnetoEncefalogram to further understand the relationship between the behavior of the brain and the behavior of the Mind.

In the **field of Education and Performance**, we want to design a curriculum, syllabi, didactic materials and a pedagogy using the MODEL as a reference. Then we will apply all of these tools in our own Noesian Schools, from a Kindergarten all the way to a University.

In the **field of Therapy and Healing**, we want to design a procedural and conceptual integration of the three fields of Medicine as we understand them from the ISYS MODEL: Bioenergetic medicine, Naturopenic medicine and Allopathic medicine. Each has its own way of addressing the body, of understanding illness, of doing diagnosis; each has its own interventional tools and procedures; and each has its own way of gauging the evolution and development of a clinical condition. Such an integration would be called a HOLISTIC MEDICINE.

In the **field of Genetics**, the MODEL has much to say about the nature of genetic information, its transmission processes and the depth of their mechanisms. The HUMAN GENOME PROJECT will acquire a very different outlook, a revolutionary breakthrough, the moment the ISYS MODEL touches the conceptual foundations of this project.

In the **field of Physics**, the MODEL opens the doors of perception to an understanding of physical reality that will unleash hitherto unknown thought mechanisms to produce a mathematics of the individual mind, a physics of the singularization of the quantum vacuum state of space and an understanding of the relationship between Individual Consciousness and the Kirlian effect.

BIOGRAPHICAL SKETCH



Ricardo Rojas is a Peruvian born, theoretical neuroscientist dedicated to fundamental research in the Science of Consciousness. He graduated from Saint Bonaventure University (Olean, NY) in 1975 with a BS in Biology and Psychology.

In 1973, prior to graduation, Ricardo left St. Bonaventure and returned to Peru. His grades were poor, his life unstable without direction and his immigration status in jeopardy. A year later he returned to his studies and mysteriously awoke to the work of scholarship. He began to devour books in math, physics, biology and psychology with the unspoken beliefs that these disciplines could be integrated in the study of human consciousness. Simultaneously he became a student of Transcendental Meditation and shortly thereafter experienced a spiritual vision that has been the motivational platform to guide and inspire his work these past 24 years.

Before graduating Ricardo did two things. He began to question his professors seeking confirmation for his inspirations about consciousness, mind, brain and body. When he discovered that his questions were annoying and upsetting, Ricardo wrote a 40 page paper about these ideas thinking that it could be a pre-doctoral treatise. Both actions lead him to conclude that his studies would have to continue outside the traditional university setting. The consequence of that decision has been a story of the miraculous, as support for his work has appeared over and over again from unexpected sources.

Eventually Ricardo gave a name to his research with the understanding that it would be necessary to use computers to mathematically and physiologically simulate the functions of consciousness, mind and brain. He called his work the ISYS MODEL.

A necessary part of this process was nurturing spiritual development. Thus, in 1980, after practicing TM for years, Ricardo became a Transcendental Meditation teacher. He taught workshops on Complete Breathing, Foot Reflexology, Yoga Asanas and developed a massage technique called Postural Decoaptation. This work brought new understandings to help develop the model. In 1985 he founded NEURONOETICS in Lima, Peru (a non-profit scientific and educational research Institution). In 1995 he met Minnie Hein and their friendship yielded the development of a conceptual framework for a Bioenergetic Medicine.

Modest funding came from the government of Peru and a one time substantial investment from a wealthy European. In 1996 he was certified as a Neurofeedback Practitioner. In 1998 Ricardo was trained on Functional Magnetic Resonance Imaging with the intention of using this technology to test the validity of the ISYS MODEL. He is currently in the Seattle area to establish himself and find sponsors for his work. NEURONOETICS, World Institute for the Science of Consciousness has been founded in Seattle as a non-profit scientific educational Corporation.

Any help conducive to making these dreams come true is certainly welcome. The embodiment and realization of these dreams will have enormous impact on all of us -as individuals and as a collective.

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