

INFO- PSYCHOLOGY

**[A Revision of EXO-
PSYCHOLOGY]**

An Extension Amplification

**A MANUAL ON THE USE OF THE
HUMAN NERVOUS SYSTEM
ACCORDING TO THE
INSTRUCTIONS OF THE
MANUFACTURERS**

AND

**A NAVIGATIONAL GUIDE FOR
PILOTING THE EVOLUTION OF THE
HUMAN INDIVIDUAL**

TIMOTHY LEARY

"The life of the Prominent individuals within a generation cannot stand apart from the generation itself. If they are the fish, the gene-pool is the liquid in which they swim. The generational sensitivity they share is far more significant than the things that separate them."

Landon Y. Jones

GREAT EXPECTATIONS:
AMERICA AND THE BABY BOOM GENERATION

"This is not going to be a volume of memoirs about my own life. Therefore I am not going to recount the truly amusing details of my arrest, which was like no other. That night the SMERSH officers gave up their last hope of being able to make out where we were on the map - they had never been able to read maps anyway. So they politely handed the map to me and asked me to tell the driver how to proceed to Central Intelligence at army headquarters. I, therefore, led them and myself to that prison, and in gratitude they immediately put me not in an ordinary cell but, in a punishment cell."

Aleksandr L Solzhenitsyn

"We, got the greatest system in the world; we've just got to find a way to make it work."

Nelson Rockefeller

"(The emergence of Information Society) ...is the central event -- the key to understanding the years immediately ahead. It is an event as profound as that First Wave of unchanged unleashed ten thousand years ago by the invention of agriculture, or the earthshaking Second Wave of change touched off by the Industrial Revolution. We are children of the next transformation, the Third Wave."

Alvin Toffler on the Cyber-Quantum Civilization

DEDICATION

This book celebrates all Evolutionary
Agents And Cyber-punks On This Planet
and Elsewhere Especially

Georges I. Gurdjieff
who reminded us to laugh

Neister Crowley
who did the English translation

To Israel Regardie
who kept the Falcon flying high

To Thomas Pynchon
who gave us the American version

To William Gibson
first of our species to circumnavigate the
Info-World. In his novels
NEUROMANCER, *COUNT ZERO*,
BURNING CHROME, *MONA LISA*
OVERDRIVE Gibson has outlined the
Cyber-Info Society of the near future.

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OF EVOLUTION
DEFINES TWENTY
FOUR STAGES OF
NEUROLOGICAL
EVOLUTION**

**Twelve Terrestrial, Collective, Mechanical
& Twelve Post Terrestrial, Cyber-Quantum**

Period	Stage of Evolution
1. Bio-Survival (Marine) Stages	1. Invertebrate 2. Marine-vertebrate 3. Amphibian
2. The Terrestrial Mammalian Stages	4. Evasive Mammalian 5. Predator Mammalian 6. Hunter-Gatherer
3. The Symbolic Tool Stage	7. Tool User, Paleolithic 8. Tool Maker, Neolithic 9. Tribal, Metal Age

4. Industrial	10. Feudal 11. National, Low Industrial 12. Multi-National, High Industrial
5. Cyber-Somatic Piloting Sensory Info	13. Individual Consumer Hedonism 14. Individual Aesthetic Mastery 15. Hedonic-Aesthetic Linkage
6. Cyber-Electronic Piloting Quantum Electronic Info	16. Individual Consumer Access to Brain and Electronic Technology 17. Individual Mastering of Brain and Electronic Technology 18. Neuro-Electronic Networks
7. Cyber-Genetic Piloting DNA/RNA Data	19. Individual Brain Management through Genetic Technology 20. Individual Mastery of Genetic Technology

	<p>Information</p> <p>21. Electronic Networks - Linkage of Genetic Technology Information</p>
<p>8. Cyber-Nano- Tech Piloting Atomic Info</p>	<p>22. Individual Consumer Access to Namo- Tech (Atomic Information)</p> <p>23. Individual Mastery of Nano-Tech (Atomic Information)</p> <p>24. Nano Technological Linkage</p>

Forward

Run Ins With Timothy Leary, Ph.D.

By Christopher S. Hyatt, Ph.D.

My first run in with Tim Leary was in 1964 when, as an undergraduate, I studied social psychology and personality theory. Leary and Coffey (circa, 1950) helped to quantify and clarify the pioneering work of Dr. Henry Stack Sullivan, an Irish-American who had invaded the clinical world of psychiatry with the notion that "personality" was a hypothetical construct which could only be understood in terms of reciprocal patterns of inter-personal relationships.

Leary and Coffey first formulated a *research model* which contributed to the understanding of personality. This led Leary and others to the development of significant new personality tests as well as the dynamic and wholistic approach to psychotherapy best represented by so many contemporary group and family therapies.

Unfortunately, Leary is all too rarely remembered for his breakthrough research (perhaps understandably by the general public given the insanity of press coverage) but even by other psychologists who, while acclaiming his early work as brilliant, then dismiss him for "falling into LSD". And yet it is this very work which led to such notions as relative and dynamic interaction, and reciprocal relationships which permeate modern approaches to psycho-therapy. Leary's dilation of Sullivan's ideas provides a quantitative profile of an individual's interactions across various observable behaviors. These measurements can then be compared between raters, (friends, doctors, self, etc.) and disparities explored and examined.

My second run in with Tim was in 1964-65 when I took 800 micro grams of LSD, a dose something more than

recommended. I had a "trip" which lasted for over two days and was flooded with information which ranged from Chinese slot machines in full color to space travel to intricate personality maps and on and on. The "trip" left me confused and anxious and over the years I began to hypothesize that all "neurosis" is a result of information shifts and overload.

Imagine the hunter-man facing the agriculture man and he facing the industrial man, and he in turn facing the technological man. The mind-brain unit attempts to struggle with the new information in various ways, some creative, some destructive. Regardless, the result is anxiety, until a new model or formulation takes place. Frequently, whole civilizations collapse as they "refuse" to accommodate the new info-tech which will inevitably transform them. Thus I concluded that man is not in search of his soul as Jung postulated but in search of ways to integrate new info-tech with old info-tech. Therefore, I discarded the notion of pathology and viewed anxiety and depression as attempts to cope with minor and major shifts in reality models. This led to notions of semantic maps (which Osgood et. al. (1957) were kind enough to provide) and shifting centers of interests (a form of coming together and moving apart at mutual points of information interactions) and infinite peripheries (being open to expanding and new information or people). Finally, years later, a new therapy [World View(s)] developed which I directly attribute to Leary, social psychology and the flood of new data created by my LSD experience.

My third run in with Tim took place through Israel Regardie, the first author to sign with Falcon Press. Regardie and I were working on *The Complete Golden Dawn System of Magic*, when for some reason Regardie decided to contact Leary. I was simply present when the conversation took place over the phone. A tentative meeting was set up but before this could take place Regardie died. Before his death he wrote of Leary, "...posterity, I am certain will have a finer appreciation of what he has contributed to this world than we have today."

My fourth run in with Leary took place at the Los Angeles Airport. There was a hurried and handsome middle-aged

gentleman standing directly in front of me. He looked very familiar although the last picture I saw of Leary was when he was 40ish. I accumulated the courage and asked him if he was Tim Leary, he replied yes and I introduced myself as the Publisher of Falcon Press. He said he would like to talk with me, but was in a hurry to catch his plane. We parted with a smile.

Three years later in 1987 Leary and I finally sat down in his home in Beverly Hills and signed the contract which led to the publication of this book as well as four others (The Future History Series). Falcon Press is pleased to have the "Head Coach" aboard.

Preface

To Falcon Press Edition 1987

This book was written, a long, long time ago, in the period 1975-1976.

The subsequent twelve years have produced enormous changes -- in world consciousness, in American Culture, in the information-psychological sciences and, to say the least, in my own perspectives.

For example, when this book was written:

Richard Nixon was in the Oval Office, being replaced by Gerald Ford. Decriminalization of marijuana had been recommended by Presidential commissions, and by the top medical / legal associations.

I wrote *EXO-PSYCHOLOGY* while serving a long sentence in federal prison for possession of a half ounce of the stuff. Taking advantage of this government-grant of undistracted time I cheerfully involved myself in writing three books and in warily avoiding FBI assassination threats.

This enforced monasticism may excuse the wistful references to Aleksandr L. Solzenitsyn, Giordano Benno, Andrei Sakharov, etc. My caged status may partially explain the earnest yearnings for extra-terrestrial flight, for O'Neill Space colonies and for bird-like escape from this earth's heavy gravity-well.

Can you recall those starry nights back then when our very own Sky Lab hung above us in bright high-orbit? The Washington/Cape Canaveral Shuttle had not been built, nor destroyed by NASA communication breakdowns.

In our innocence we assumed that the Shah, with the help of the CIA, could establish a western industrial culture in Iran.

That Israel was a western-democracy. That Born-Again Christians were pathetic, irrelevant kooks. How innocent we were back then.

How uninformed was I, not understanding several great insights which would, in the next wild decade, clarify our expectations of the 21st century.

I had, for example, not read *Great Expectations* by Landon Y. Jones. This fascinating and erroneously pessimistic book suggested that each decade of the last half of the 20th century represents a stage or passage in the growing-up of the Baby Boom Generation, a cohort 76 million strong, twice as large as expected. This new species of Cyber-kids, encouraged by Dr. Spock to think for themselves, trained by TV ads to become consumer gourmets of reality, were the first generation to explore and inhabit the Info-World, the first cohort of humans to think and communicate in terms of electron-clusters projected on screens, those shimmering, always changing mirrors of public consciousness.

Nor had I, in 1975-76, read Alvin Toffler's *The Third Wave* or John Naisbitt's writings about the post-industrial, post-nation, post-collective consciousness.

I clearly did realize that the smokestack, assembly line, factory civilization was winding down in smog, rust, and acid rain. And I was able to spell out the four most probable next stages of our evolution as species and individuals.

5. Cyber-somatic: the individual managing hir own body, using new hedonic-aesthetic technologies to pilot through the sensory world which can only be experienced by the registered (imprinted) owner. The emergence of High-Tech Paganism.

6. Cyber-neurologic: the world of the brain which can only be experienced by the owner, the individual navigating and re-programming hir own bran; using new electronic technologies to create Info-worlds more tangible and natural and livable than the mechanical realities of the industrial age; the emergence of Electronic-Quantum Paganism, High-Tech Humanism.

7. Cyber-genetic: the world of genetic consciousness which can only be experienced by the individual deciphering and reprogramming hir own DNA, using the new micro-biological

technologies to harmonize with the Gaia Matrix to create new species; the emergence of Amino Acid Animism.

8. Cyber-atomic: the individual deciphering and reprogramming atomic info-structures, piloting the new nano-technologies for personal and species evolution.

Believe it or not, I wrote this book in the antiquated world of the rag-and-glue book, before the arrival of Eve's Electronic Apple. Before Steve Jobs and Steve Wozniak had marketed the first cyber-computer, the first personal knowledge appliance which allowed individuals to digitize thoughts, process them, alter their molecular structures, communicate them on screens

I was quite blind to the fact that the new young generation would grow up automatically processing digitized thoughts on home electronic screens

In short, I understood PSYber-world, but not CYBer-world

I had extensively explored the inner worlds of consciousness, navigated the limitless psy-universe of the brain. But I had no access to and understanding of the Info-world, created by the electronic technologies which were just about to change us from mechanical-book people to quantum screen people. Home synthesizers. Computers. Audio digitizers. Video digitizers. Compact Disk Interactive systems.

My high-tech ignorance in 1976 accounts for the over emphasis on space colonies and post-terrestrial psychology.

I did not realize that the first wave of Alien Intelligences which would teach me the quantum language of the galaxy would be found, not out beyond the wall of the Van Allen belt, but would appear in my own house in the year 1979 in the form of my Cyber-son Zachary piloting his way around the info-space of video games and the asteroids, planets and constellations of data to be explored in computer software.

In 1975-76 it seemed clear that life was leaving the planet and migrating to space-colonies which the inhabitants would fabricate. These H.O.M.E.s (High Orbital Mini-Earths) would obviously involve post-mechanical, post-national, neuro-electronic

environments. But I did not realize that the space-worlds could only be built and inhabited by those who had attained Cyber-Quantum proficiency.

Exo-psychology now seems to me an important futique concept. But it places emphasis on the rocket-ship hardware. The title of this book should be:

INFO-PSYCHOLOGY

The Info-Worlds which our species will discover, create, explore and inhabit in the immediate future are not to be reached from Canaveral launch-pads alone, but throughour computer personal savers.

To explain these new ripples my current publisher/editors Dr. Christopher S. Hyatt and Nicholas Tharcher have allowed me to re-write the first 16 pages of this revised edition. This new beginning permitted me to start shifting the emphasis from "EXO" to "INFO".

From Space Habitats to Information Habitats.

After page 16 or so you, the reader, must translate and update my 1976 prose.

Many of the terms of *Exo-Psychology* seem a bit out of place in the slick, high-tech 1980's. To update and clarify may I offer some translations?

Glossary

EXO-PSYCHOLOGY:

The psychology of post-terrestrial existence.

INFO-PSYCHOLOGY:

The psychology of the post-industrial society. Precedes and complements Exo-Psychology.

DIGITAL LANGAGE OR QUANTUM LINGUISTICS:

Thoughts packaged, stored, processed and communiated in terms of quantitative patterns. H₂O is the digitized (quantum)

expression for lettered thoughts such as "wasser", "l'eau", "aqua ", "water'.

SPACE:

The extra-terrestrial universe, the solar system, stars galaxies usually defined as material structures.

INFO-SPACE:

Our world, the galaxy, the universe defined and measured in terms of information. The quantum universe of signals, bits, digital elements, recorded by, stored in, processed, communicated by electronic knowledge technology, the human brain and its electronic extensions.

LARYNGEAL-MANUAL (L-M):

Oral, handcrafted language. The creation of hand-made artifacts and tools. The Paleolithic, neolithic and tool-making (tribal) stages of human evolution which came after hunter-gatherer and before feudal, industrial and quantum stages.

LARVAL:

Early primitive stages of human evolution which precede space migration and attainment of individual mastery of quantum technology. LARVAL humans are instinctively, reflexively tied to collectives; they have not reached the cyber (pilot) states of auto-thinking. This term is deliberately insolent and provocative. To label fellow human beings as belonging to primitive stages of evolution does not insure immediate popularity. This satirical usage reflects the author's traditional, Celtic playful arrogance, here inflated by jail-house blues.

DOMESTICATED PRIMATES:

Humans who do not think for themselves. Human beings who belong to tribes, states, churches, rigid organizations, nations, industrial societies. The stages which precede individual cyber-life. This is another typical snide Sufi (Gurdjieffian) barb at people who do not think for themselves. An "in joke" not appreciated by some. (Informative and funny references to DP's can be found in the

following Falcon Press books presented in the order of snideness, *Undoing Yourself*, *Prometheus Rising*, *Angel Tech*, and *Breaking the Godspell*.)

POST-SYMBOLIC:

Stages of thinking which use digitized clusters of quanta rather than lettered words or vocal utterances.

COLLECTIVE:

All stages of human evolution which precede individual independence. Other synonyms: member of HIVE, HERD, FLOCK. Usually used with satirical intent (See *Undoing Yourself*).

TERRESTRIAL:

Stages which precede space-migration and cyber-quantum thinking.

QUANTUM:

The word "quantum" refers to a bit, an elemental unit. The word QUANTUM used as an adjective indicates that the subject is defined in terms of numbers, clusters of digitized elements, units of information.

QUANTUM PHYSICS OR INFO?PHYSICS:

This is contrasted with the mechanical, material physics of Newton which concerned itself with such issues as mass, force, work, energy.

QUANTUM PHYSICS:

Defines a universe made up of temporary clusters of info-units, elemental off-on, digital bits.

THE QUANTUM UNIVERSE:

Is an INFO-UNIVERSE.

QUANTUM PHYSICS REFERS TO INFORMATION SCIENCE:

The decoding of the signals of the universe in the many dimensions of complexity. Whereas the Newtonian universe was

composed of apparently solid matter, the INFO-UNIVERSE is made up of data structures.

THE QUANTUM PERSON:

Inhabits data-space, lives in Info-World,

QUANTUM PSYCHOLOGY:

A synonym for EXO-PSYCHOLOGY Human thought and behavior described in terms of the language of numbers, computers, icons.

THE ROARING 20TH CENTURY:

Each decade of the 20th century has witnessed the emergence of information appliances and new communication-art-forms which give humans increasing access to and control of electronic (digital) information.

The quantum appliances include telephones, radio, phonographs, movies, television, portable cassette players, CB radios, home synthesizers, compact disks.

CYBER:

The word CYBER comes from the Greek *kubernetes*, pilot. The Heisenberg principle demonstrated that the observer determines (i.e. defines) the realities SHe confronts by the nature of the observational technologies and the maps/models used for interpretation.

THE CYBER-PERSON:

Is the individual who understands the Heisenberg principle and accepts responsibility for the realities SHe defines and inhabits. This general principle of Self-Determination has been described for millennia by Hindu-Buddhist-Gnostic-Sufi philosophers. Creative people, writers, artists, poets, dramatists, inventors, innovators, shamans, intelligent magicians have, throughout the centuries, understood this principle. They have used it to fabricate the glories of human culture and science. However, the ability of CYBER-PERSONS to create realities has been limited to symbols, icons, myths, scripts, artistic and philosophic expressions. The Information structures we call art. Until recently

human ability to describe quantum realities could not extend to the material plane because of techno-quantum ignorance. During the Pre-Industrial humans, from philosophers to sultans to serfs, were helpless victims of techno-myopia. The Industrial era tremendously advanced human ability to manage material reality, on the collective scale. It was only in the Roaring 20th century that humans discovered that the universe is an Info-Structure to be explored and managed by Intelligence, i.e., Cyber-Quantum proficiency to think and build with clusters of digitized thoughts.

CYBER-QUANTUM PSYCHOLOGY:

The individual accesses and pilots electronic knowledge technology for his own personal purposes. The traditional eight attitudes of philosophy can now be redefined in terms of CYBER-QUANTUM PSYCHOLOGY.

1. COSMOLOGY:

the theory of origins defined in Cyber or Collective terms.

QUANTUM COSMOLOGY:

a theory of origins which can be expressed in scientific, quantum, numerical form.

2. POLITIC:

a theory of domination, control, freedom, submission defined either in terms of Individuals (cyber) or collectives.

QUANTUM POLITICS:

a theory of domination, control, freedom expressed in psychogeometric coordinates and digital language. See the computer software program MIND MIRROR.

3. EPISTOMOLOGY:

the theory which defines truth (cyber-individual belief) and fact (collective-social belief).

QUANTUM EPISTOMOLOGY:

truth and fact expressed in digital language and quantum physical descriptions.

4. ETHICS:

the theory which defines good/evil (cyber-subjective) and virtue/vice (social-collective).

QUANTUM ETHICS:

good and virtue defined in the astro-physical language of psycho-geometry.

5. AESTHETICS:

a theory defining subjective-beauty and social-art, personal pleasure and rewards from the collective.

QUANTUM AESTHETICS:

Beauty, art, pleasure, reward defined in terms of numbers, digits, geometrics.

6. ONTOLOGY:

a theory about the nature of reality based on Cyber (personal) or Collective-social attitude.

QUANTUM ONTOLOGY:

a theory about the nature of reality defined in scientific, technological, quantum digitease.

7. TELEOLOGY:

a theory of evolution, devolution or stasis based on either Cyber-individual or Collective-social attitudes.

QUANTUM TELEOLOGY:

a theory of evolution, devolution, or stasis based on measurable indices, quantitative patterns, geometrics.

8. ESCHATOLOGY:

a theory of endings, both cyber-individual and collective-social. A person who is not in charge of his own endings probably cannot fabricate a general theory of evolutionary endings.

QUANTUM ESCHATOLOGY:

a theory of endings based upon quantification, digitization, geometry.

Preface

To First Edition

Life on the Planet Earth, through the instrumentality of the human nervous system, has begun to migrate from the Womb Planet, to escape from gene pools, to establish colonies in high orbit, from whence it can more accessibly contact and communicate with Life in the Galaxy.

Rocket-ships have attained the escape velocity necessary to ascend beyond the gravitational pull of the womb-planet.

Radio-telescope "dishes" now look out to the stars, ready to receive eletro-magnetic messages from intelligent neighbors.

Electronic signals are now transmitting through interstellar spare the message of human readiness to exchange and communicate.

The suspicion grows that we, who are about to leave this small satellite of a peripheral star, are neither alone nor isolated.

Within the life-time of many who read these lines, it could happen: our pioneer families will leave the solar system; interstellar messages will be received; contact will be made. The galactic discussion will begin.

It is about time to prepare for life in space as members of new, consciously selected gene pools.

It is about time to develop a philosophy, a psychology, the language to enable us to listen, understand, and respond intelligently to our interstellar neighbors.

The language is quantum, digital, psychogeometric.

Some among us will protest that human intelligence and human resources should be used to solve the agonizing terrestrial problems of unequal distribution.

These larval protests, however sincere, are embryonic, understandable and myopic.

The crisis of suffering and scarcity which now threatens humanity is not material. It is neuro-political warfare.

It has been called spiritual, psychological, philosophic. It is best described as navigational. Humanity has not yet deciphered the genetic code. The compass, the guide-book is now being prepared.

Men and women who know from whence they come and where they are going, who share a vision beyond the local-mundane will emerge from the larval gene-pools and as cyber (pilot) individuals, who learn quickly, work effectively, grow naturally, socialize lovingly and evolve gracefully. It is probably true that species coast along on serene stupidity until faced with an evolutionary challenge; at which point individuals leave the primitive collectives and become very smarter very faster.

This book, a simple-minded attempt to provide a perspective of biological evolution on and from this planet, presents hundreds of neogenetic ideas for which some individual from every gene-pool are now ready. The transmission is presented in machine-printed letters although the topics discussed are electromagnetic and quantum-physical. The reader should expect, therefore, that his conditioned symbol-system is going to be jolted with unexpected and novel symbol combinations. This is exactly the situation that will exist when Higher Intelligence begins to talk cyber-quantum with a species of mechanical thinkers.

A human from the twentieth century would find it a most difficult and delicate task to explain "now" to a tool-maker from the sixteenth century. The sophisticated reader can avoid being irritated by some of the metaphors in this book if cultural time-lag is kept in mind.

Some good-will and open-ness towards the future is necessary in interspecies dialogues of this sort.

The importance of this post-terrestrial guidebook is that it exists. Here is a first attempt to prepare humanity for the outward journey, for post-terrestrial migration to the Info-Worlds.

Other and more sophisticated Info-psychologies will follow. Is there any more interesting or vital thing to do than to create futures?

The first attempt is deliberately eclectic and translational - linking the religious-occult to the scientific; the antique to the future; the legends of the past to the data of the present.

We have suggested eight periods and twenty-four stages of neurological evolution as a didactic metaphor to anticipate, to specify, to order, to personalize, to familiarize the immense post-mechanical, meta-personal, post-Newtonian electron fields which are to be imprinted.

The illustrative metaphors are not important. What is crucial to humanity's graceful mutation is the understanding and personal application of Einsteinian, neuro-genetic, quantum-physical perspectives of who we are and whom we choose to become.

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

1. Info-Psychology Is the Science Which Studies the Evolution of the Nervous System from its Terrestrial- Mechanical-Collective Stages to its Post- Terrestrial-Quantum-Cyber Stages.

The psychologies of the Industrial Age, (1850-1975), while claiming to measure thinking, consciousness and behavior, for the most part studied the adjustment-maladjustment of human beings to social rituals and culturally defined constraint systems. Appearing at a time when feudal theology was losing its meaning for the growing class of semi-educated, mechanical psychology provided a comforting rationale for domestication, a soothing pseudo-scientific language for supporting the values of the factory culture.

Industrial psychology, in spite of enormous, state-supported bureaucracies and its priesthood mystique, produced no verifiable theories for explaining human behavior nor any methods for solving the classic problems of human society - crime, war, conflict, alienation, prejudice, stupidity, boredom, aggression, unhappiness, and philosophic ignorance about the meaning of life.

At the same time the psychology of the Industrial Age was becoming a priestly tech no-religion, the chemical, physical, information and biological sciences were quietly producing theories, facts and techniques which have profound implications for the changing of human nature.

Neurology locates the source of consciousness, memory, learning, and behavior in the nervous system - a one hundred billion cell bio-computer for which the body is transportational robot.

Clearly if we wish to understand and improve our mental, emotional and behavior functions, the locus of investigation is the nervous system. The person who can dial and tune the receptive, integrative, transmitting circuits of the nervous system is not just more intelligent, but can be said to operate at a higher and more complex level of evolution.

Pre-cyber humans maintain a rigid taboo about discussing or tampering with their nervous systems - a phobia which is based on a primitive fear of the unknown and a superstitious reluctance to learn how to know. It is now evident that the nervous system is an incredibly powerful instrument for conscious evolution which can be understood and employed for genetic tasks by those who accept the "pilot" responsibility.

Ethology which studies animal behavior in the natural and experimental setting, has demonstrated the robot-instinctual nature of neural discrimination and the role of **imprinting** in determining when, and towards what, animal behavior is initiated.

Industrial Psychologists have failed to apply the findings of ethology to the human situation. The fact that most human emotional, mental, sexual and ethical behavior is based on accidental imprinting of the nervous system during "critical" or "sensitive" periods of development is unsettling to mechanical-age cultures. If individuals learn how they were imprinted, they can learn how to re-imprint or reprogram their brains.

Neurochemistry has recently discovered that neurotransmitter chemicals which facilitate/inhibit nerve impulses

and synaptic connections determine consciousness, emotion, memory, learning and behavior.

Psychopharmacology at the same time has discovered botanical and synthetic psycho-active agents which facilitate/inhibit states of consciousness, accelerate or dampen mental function, and permit cyber-persons to re-program.

Information Sciences: Around the turn of the century quantum physics presented three startling concepts which were to change human life. They can be paraphrased and popularized as follows:

1. Einstein's Relativity equations suggested that everything (and everyone) is moving at velocities and directions which can best (or only) be determined in relationship to other coming units. The social and psychological implications are obvious.

2. The equations of Quantum Physics suggested that everything in the universe is made up of bits or elemental units of information. Solid Newtonian matter now becomes waves or clouds of on/off probabilities. Realities could be explained metaphorically as screens of digitized patterns.

3. Werner Heisenberg contributed a third idea which defines an Information Universe. His "uncertainty" axiom holds that our observations fabricate the subject matter, i.e. realities. We can only know what our sense-organs, our measuring instruments and our paradigms or maps describe.

These three principles which define the Info-universe were first expressed with paleolithic tools, chalk formulae on black boards. Almost no one could understand or accept this hallucinatory world in which everything is continually changing, is relative to viewpoint and dependent on our psychological attitude and info-technology.

We can now see in retrospect that the historical genetic task of the Roaring 20th Century has been to dissolve our psychological attachment to solid, Newtonian structures and to familiarize us, to help us, feel comfortable inhabiting these digitized Info-worlds.

The task of personalizing and popularizing new "mystical" philosophic themes has always been assigned to special genetic castes -- artists, writers, poets, bards, minstrels, story-tellers. So it was the Impressionists, Expressionists, Cubists, Pointillistes, Surrealists and others of this rowdy group who persuaded us to accept visual reality in terms of shifting planes and shimmering colors.

The jazz musicians gave sound to the Quantum principles. They improvised, syncopated, piloted. Best of all they harmonized, they learned how to form cyber-societies, pilots flying formation, attuning their subjective info-flights to those of the other musicians in the group.

Did not each decade of the Roaring 20th Century produce its quantum-appliance, its homey, comfortable, even addictive method of digitizing reality and projecting it on records, tapes and electron screens?

What a series of electronic product innovations! Waves of new digitized data inevitably surfing our species of Farmers and Industrial workers into the Quantum-Cyber future!

Radio! Film! Movies! Television! Portable sound cassettes! Computer! Self-administered psychodrugs! Microwave ovens! Compact Disks! CB radios! -- Each preparing us to live choicefully, extravagantly in the Info-world!

These Einsteinian and other discoveries have predictably traumatized those psychologists who are committed both professionally and theologically to static, Newtonian, concepts of human personality.

These four sciences provide an impressive convergence of evidence suggesting that the brain is a bio-chemical-electric-computer in which each nerve impulse acts as an information "quanta" or "bit"; that the nervous system is structurally wired into genetically pre-programmed circuits designed to automatically select and relay certain perceptual cues and to discharge rote reactions; that imprinting **of models accidentally present in the environment at critical periods determines the tunnel realities** in which humans live.

We are led to conclude that the human being, at this stage of evolution, is a biological robot (biot) automatically responding to genetic template and childhood imprinting.

The unflattering portrait of **homo sapiens** suggested by the evidence from these "new" sciences -- neurology, ethology, neurochemistry, and psychopharmacology -- is, of course, quite unacceptable to psychologists and religious leaders who enunciate theories about "man's" separate, superior and "chosen" status among living forms.

We need not be surprised at "man's" flattering, self-appraisal. Since the "island realities" which we inhabit are defined by genetic template and imprint we can only evaluate ourselves in terms of the symbols which our nervous systems have created.

If we can imagine an anthropological report about **homo sapiens** written by extra-terrestrial scientists from a more advanced civilization, we can assume that humanity's inability to solve its psychological, social and ecological problems or to provide answers to basic cosmological questions (e.g. why are we here and where are we going? Note: For some interesting speculative answers see *Breaking the GodSpell* and *The Sapiens System* both Falcon books) would lead to the conclusion that **homo sapiens** is a species capable of very limited robot-reactivity and that Intelligent Life has not yet evolved on this planet.

Such an extra-terrestrial survey could also report the emergence of a rudimentary intelligence, as evidenced by the Einsteinian perspectives of the sciences just discussed and by the implications of four other sciences which have significance for human destiny in the future: **astronautics**, **astro-physics**, **genetics** and **quantum physics**.

Astronautic: The significance of extra-terrestrial flight has not yet been fully understood. The Apollo missions were more than technological triumphs or nationalistic achievements. Genetically and neurologically the beginning of a species mutation has occurred -- equal in importance to the first amphibian movement from water-to-land early in biological history.

There can be no question that humanity has begun its migration to interplanetary and eventual interstellar existence. The effects of this transition on the nervous system and the DNA code will be profound. Just as amphibian and land-dwelling organisms mutated rapidly, developing the neural and physiological equipment for the new environment -- so will humans mutate rapidly living in High-Orbit.

Exposure to zero-gravity and to extra-terrestrial radiation are two of many physical stimuli which will trigger-off the genetic and neurological changes necessary to adapt to interstellar life.

The psychological effects will be dramatic. Space migration requires accelerated, relativistic, multi-dimensional flexibility of which the nervous system is capable. It is inevitable that extraplanetary humans will be as advanced beyond current earth-dwellers as "man" is beyond the cave-dwelling ancestors. The beginnings of this process of exo-psychological adaptation can be noted in several lunar astronauts and E.V.A. veterans who returned claiming cosmic insights (Mitchell), philosophic revelations (Schweikart), and rebirth symptoms (Aldrin).

Astro-physics has also produced facts which stretch the limits of psychological vision. We learn to our delight that we are not alone -- that perhaps as many as half of the 100 billion or more stars in our local galaxy are older than our sun, making it highly probable that more advanced forms of intelligent life are around the neighborhood. Humans have so far been neurologically incapable of conceiving of Higher Intelligence. Even science fiction writers, with very few exceptions (Stapledon, Asinine, Clarke and others), have been unable to specify the manifestations of superior species, except as technological extrapolations and bizarre extremes of current human culture.

Whatever the mind can conceive it tends to create. As soon as humans accept and neurologically **imprint** the notion of higher levels of intelligence and of circuits of the nervous system as yet unactivated -- a new philosophy of evolution will emerge. It is natural to call this extra-planetary perspective of human evolution **Exo-psychology** -- human nature seen in the context of an

evolving nervous system, from the vantage point of older species which now exist in our extra-terrestrial future.

Genetics has revealed that **DNA** blueprints which reside in the nucleus of every living cell are remarkably similar from species to species. Astronomers and exo-biologists have discovered the molecules which are basic to life in outer space and in other star systems. The **DNA** code can now be seen as a temporal blueprint unfolding sequentially like a tape-spool, transmitting preprogrammed construction plans. In the individual this code unfolds through predetermined stages from infancy, through childhood, adolescence, maturity, menopause, aging and death. A fixed time schedule similarly unfolds in the evolution of species.

The **DNA** code contains the blueprint of the past **and the future**. The caterpillar **DNA** contains the design for construction and operation of the butterfly body.

It has long been known that individual ontology recapitulates species phylogeny -- that the human embryo, for example, repeats the evolutionary cycle; grows gills, is covered with hair, etc. The psycho-neural time-perspective implications of this fact have never been seriously studied.[\[1\]](#)

Geneticists are just now discovering "unused" sections of the **DNA**, masked by **histones** and activated by nonhistone proteins, which are thought to contain the blueprint of the future. Evolution is not a blind, accidental, improvising process. The **DNA** code is a prospective blueprint which can be deciphered.

Just as an engineer could study the flow-charts of an auto-assembly plant and see how a car is put together in a sequence of future operations -- so can the histone-masked sections of the **DNA** code be studied to determine the sequence of future evolution. The instruments for deciphering the **DNA** message are neurological and neurochemical. The science which studies the two-way communication between **DNA-RNA** and the nervous system is called **Neurogenetics**.

Astronomy and astronautics persuade us that interstellar travel lies ahead in humanity's future. Extra-terrestrial existence

will involve an advanced, mutated nervous system and inevitable contact with superior intelligence.[2]

Neurogenetics is a new science (with a respectable journal and membership dues) which studies the psychology -- i.e. the consciousness and behavior -- of **DNA-RNA**. Neurogenetics may be called a branch of exo-psychology if we assume that **DNA** contelligence is not restricted to planet earth, but, indeed, was probably originated by and designed to return to extra-terrestrial intelligence. (See Freer's book *Breaking the GodSpell*.)

It is becoming clear that the nucleus of the atom is a complex organization of powerful forces which operate according to relationship-laws (excitement, charm, spin, parity, resonance). Just as the **DNA** code, located in the nucleus of the cell, is the genetic brain which, via **RNA**, designs and manufactures bodies and nervous systems, so can we conceive of the nucleus of the atom as the elemental "brain" which designs and constructs atoms and molecules according to quantum logic.

Quantum physics: It is now conjectured that all matter and energy in the universe operates in a "general informational field" which can be understood in terms of the relativistic interaction among the basic forces that exist in nature:

- **gravitational**
- **electro-magnetic**
- **strong force (subatomic)**
- **weak force (radiational)**

Primitive psychology was based, at best, on Newtonian "laws" and, for the most part, was geocentric (closet Ptolemaist). Even the most poetic Freudians, Behaviorists and Transactional Analysts have not allowed their theories of human behavior to be influenced by the Einsteinian revolution which has dramatically changed our understanding of the structure of the universe.

Quantum-psychology begins to study the "psychology" - i.e. the consciousness and behavior - of atomic particles and to relate electronics and atomics to human consciousness and behavior. Physicist John Archibald Wheeler's work suggests that

the atomic nucleus can receive, remember, integrate and transmit information at extremely high-velocities and can probably engage in most of the basic social behavior that we observe in living organisms.

Interpersonal, emotional (i.e. motional), intellectual and social affairs at the electronic level and their transception by the nervous system define **neuroelectronics**.

Interpersonal, emotional, intellectual, and social events at the subatomic, nuclear level and their transception by the nervous system define **neuroatomics**. Eric Drexler's essays on nanotechnology provide a breathtaking atomic perspective of cyber-navigation at this level.

Our understanding of atomic and nuclear processes has been limited by our language-logic-imagination-philosophy which tends to be Euclidean, Newtonian. We inevitably "psychologize" nature and personalize atomic events. Our laryngeal-muscular minds, imprinted in primitive childhood, cannot conceive of what we cannot conceive of; cannot experience what we have never experienced.

Our dialogue with **DNA** and our conversations with atomic-subatomic and astronomical energy signals must, however, be two-way. We must open our "minds" to decode the signals which are being sent to our nervous systems by **DNA** and by quantum structures. When we geneticize our psychology, i.e. think like **DNA-RNA**, we see the current human condition as a transient phase in the evolution of the nervous system. Since **DNA** creates us, it is logically diplomatic and theologically conventional (image of God) to relate our psychology to the laws and designs of molecular intelligence. Since the nucleus of the atom designs atoms and molecules, it is logical to relate our psychology to the laws and structures of nuclear physics and astronomy; to think of ourselves as "atoms" or even "stars" radiating, decaying, attracting, repelling, receiving and transmitting along frequency spectra, resonating, forming molecular social structures, possessing a characteristic electro-magnetic personality, moving through energy networks with relativistic form, U.S.W.

Since our primitive psychological systems based on Newtonian geocentric principles have done little to enlighten or harmonize human philosophy, does it seem too fanciful to suggest that we should, in the future, base our psychological concepts on the laws and structures of physics, chemistry, and astronomy; and seek to explain human behavior in terms of natural rather than national inter-relatings?

Primitive, geo-centric, egocentric, socio-centric psychology, ignoring the laws of bio-chemistry and physics, constructs a philosophy of mammalian emotions, Euclidean laryngeal-muscular symbols, and parochial values to explain "man and his universe."

Exo-psychology views human destiny in terms of an evolving nervous system, designed by DNA intelligence (which uses planets as temporary embryonic nesting sites, in an interstellar migratory process destined to extend life-span, life-scope) to become symbiotic transceivers of quantum-physical contelligence.

[1]The theory of serial imprinting suggests that psychology recapitulates phylogeny. That the individual nervous system repeats the evolutionary sequence. That the baby imprints an invertebrate reality, the crawling child a mammalian reality, the pre-school child a paleolithic reality, the adolescent a domesticated-civilized reality.

[2]Some astronomers now state that Superior Intelligence does not exist in the universe because "they" have not contacted us or responded to our radio signals. Such conclusions illustrate the negative bias of conventional science. There is, of course, no scientific basis for claiming or denying the existence of Higher Intelligence. Time-dilation factors complicate the matter; if a spaceship were hurtling towards us at close to light-speed, millions of years would elapse on earth for every year in flight. There is no basis for dogmatic statement.

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2. Info-psychology (Psi-Phy) Is the Psychology of Quantum Physics: Philosophy Based on Scientific Fact.

The theories presented in this transmission might be called Science Fiction, or Philosophy of Science, or Psychology of Physics. Psi Phy.[\[1\]](#)

They are **scientific** in that they are based on empirical findings from physics, physiology, pharmacology, genetics, astronomy, behavioral psychology, information science, and most important, neurology.

They are **fictional** in the Wittgensteinian sense that all theories and speculations beyond the mathematical propositions of natural science are subjective.

They are **factional** in the sense that current advances in Space Migration, Neurologic and the Life Extension sciences have already gone beyond the fantasies of most science fiction writers. Science Fact is now farther-out than Science Fiction. We are now creating a future which is more incredible than 2001. O'Neill space

cylinders are more complex and advanced than Clarke-Kubrick space-ships.

This book was written in various prisons to which the author had been sentenced for dangerous ideology and violations of Newtonian and religious laws.

Other philosophers (notably Christian theologians, statistical materialists, Marxian dialecticians) make different interpretations of the currently available corpus of scientific fact. Such theories, however popular, are equally fictional. History suggests that philosophies accepted as academic dogma or enforced by punitive legal sanctions are not necessarily any less fictional than those which are persecuted and censored. Indeed, there is some sociological evidence that science fictions are forcibly suppressed only when they are more likely to accelerate human evolution than the defensive orthodoxies which they challenge. We think of Socrates, Bruno, Copernicus, Darwin, Pasteur, Sakharov.

[1]"Everyone writes science fiction ... most write it without having the slightest idea that they are doing so." Joyce Carol Oates.

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3. Life Unfolds in Mutational Phases From Terrestrial-Collective to Post- Terrestrial (Cyber).

It gives us pleasure and increases our sense of freedom to believe that the species known as **home sapiens** is evolving through an eight phase life-cycle. Four of these phases involve collective thinking on the womb planet. The four more advanced phases are designed for navigation through Info-space and beyond.

Info-psychology is a theory of Neurogenetic evolution based on the following assumptions:

1. There are millions of solar systems in our galaxy which have planets upon which organic life breeds and evolves.
2. Since our planet is at the mid-point of the evolution of a G-type sun (five billion years) it is assumed that half of the planets in our galaxy upon which life is to be found could be more advanced in the evolutionary sense than life on our planet.
3. These more advanced cultures numbering, perhaps, in the millions, represent the future of our own evolution. They exist ahead of us in genetic time. "They" are "us" in the future.
4. The same chemical elements and physical-chemical processes occur on all star systems in the known universe.

5. Life as it exists on planet earth is not unique. We could be as alike to our inter-stellar neighbors as "peas in a pod." ("We" in this cliché refers to all life forms on this planet.) We could find only early and more advanced versions of ourselves. We are the alien life forms.

6. Planets have a predictable life span. They are destroyed in the late "red-giant" phase of their suns. It is logical to suppose that Life migrates from planets before they are destroyed by aging suns or before their biological resources are exhausted.

7. The Neurogenetic theory suggests that Life is not designed to remain on the planet of birth, but to migrate throughout the galaxy.

8. Life is seeded on young planets in the form of amino acid templates. These genetic blueprints contain the multi-billion year design of evolution. The basic tactics of evolution are metamorphosis and migration. We have probably been seeded on millions of other planets.

9. The **DNA** code is literally a message outlining the course of evolution. On planet earth about half of this evolutionary blueprint has unfolded. The future half, blocked by **histones**, exists in quiescent form waiting to be activated -- just as the chromosomes of a tadpole contain the future frog form. As the human embryo of four months contains the form of the neonate. Or the neonate the form of the pubescent teen-ager.

10. The human species is now completing a fourth phase of its larval development. Think of the earth as a womb. Life so far on this planet is embryonic. When life leaves the planet it adopts post-fetal, post-larval existence.

11. It is convenient to describe larval life on earth as Newtonian -- concerned with the gravity-bound mechanics of survival. And to describe extra-terrestrial existence as Einsteinian. Gravity selective.

The four Newtonian circuits of the nervous system are concerned with mastery of the four umbilical **attitudes** necessary for terrestrial survival.

1. **ventral-dorsal**
2. **vertical (up-down)**
3. **two-dimensional (left-right)**
4. **protective-incorporative (for survival of the species)**

The four Einsteinian circuits of the nervous system are designed for survival in post-terrestrial space and involve mastery of:

5. **the body as time-vehicle and info-system**
6. **the nervous system as self-directed bio-electric computer**
7. **the genetic code as molecular intelligence**
8. **meta-physiological, quantum mechanical, nuclear-gravitational force-fields (nano-technology)**

The metamorphosis of human species from terrestrial to extra-terrestrial existence was signalled by the almost simultaneous discoveries of neuroactive drugs, electronic instruments, **DNA** code, sub-atomic nuclear energies, quantum physics, computers, electronic communication.

Each of the eight periods of individual human life involves gross alterations in morphology, behavior, physiology, and most important, neurology. In spite of the fact that these changes are obvious, even to the most untutored observer, the psychological-philosophic implications of these phases have not been understood by larval scientists and philosophers. This may be due to the possibility that the human species itself is evolving through the same eight phases and, until recently, has been almost exclusively preoccupied with the four basic, collective, survival processes (vegetative, political, technological, social).[1]

By analogy, a society of water-bound tadpoles would be neurologically inhibited from recognizing that the amphibious frog is a later version (both phylogenetically and individually) of itself.

The scientific facts about the nervous system, the creation of reality by imprinting, our position in the galaxy, re-programming via neurotransmitter drugs, Einsteinian relativity, the **DNA** code -- now available in any junior-college text -- can be understood by an open-minded adolescent. These facts, however, are so alien to the Judeo-Christian-Marxist conceptions of human nature that they have been repressed. Unconscious resistance to patent observations and scientific findings is a routine process in the evolution of human knowledge. We are familiar with the tendency to place under taboo facts which disturb orthodox religious dogmas (See *Undoing Yourself*). The taboo phenomenon is genetically determined. Premature intimations of future metamorphotic stages would be dangerously confusing and demoralizing to a larval species.

Discovery of the serial imprinting capability of the nervous system, of bi-lateral (past-future) asymmetry in the cortex, the probability of advanced life forms on millions of planets in our local galaxy, the information universe, digital communication and recognition of the longevity implications of the unused half of the **DNA** code, is producing a mutational quantum leap in the course of human evolution which is now preparing the species for migration from the planet and mutation to become a cyber-species inhabiting the info-worlds of the future(s).

*[1] Rudimentary recognition of the larval, cyclical nature of contemporary human existence has been sporadically attained in earlier civilizations which have temporarily reached the necessary level of biological, political, technological, and reproductive security. In ancient China, India, Ceylon, Crete, Babylon, Greece, Islamic Damascus, Egypt, Renaissance Europe, a few neurologically elite, premature evolutes have used leisure (i.e. the **time**) and available technology to develop bodily hedonic, erotic, aesthetic expressions, science-fiction speculations and botanical methods of expanding neurological function beyond survival imprints.*

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

4. There are Eight Stages in Human Evolution.

The human nervous system is evolving sequentially through eight maturational phases. At each phase a new circuit of the nervous system is activated and imprinted.

The larval (neuro-umbilical) terrestrial stages of the nervous system designed for attachment to and survival on earth are:

1. The **Bio-survival (Marine) Stages** -- mediating the reception, integration and transmission of neural signals concerned with cellular health and vegetative, metabolic security. Safety-danger.
2. The **Emotion-locomotion terrestrial-mammalian Stage** -- mediating the reception, integration and transmission of neuro-muscular signals concerned with body-mobility, territorial control, and the avoidance of helplessness. Fight/Flight.
3. The **Symbolic-artifactual Stage** -- mediating the reception, integration and transmission of oral-manual signals, language, artifacts, symbols, tools. Tribal.
4. The **Industrial Stages** -- mediating the reception, integration and transmission of neural signals concerned with sexual roles, occupation and socialization in the Factory Culture.

The four circuits of the nervous system designed to mediate somatic, electronic-neural, genetic, atomic information, and to adapt to post-terrestrial, info-worlds are:

5. The **Cyber-somatic Stages** -- mediating the reception, integration and transmission of sensory-somatic signals uncensored by government imprints designed to operate in a zerogravity environment. Body Consciousness.

6. The **Cyber-electronic Stages** -- reception, integration and transmission of neural signals at the simultaneity and velocity of a bio-electric-grid; not programmed by government imprints, but by the individual. Brain consciousness.

7. The **Cyber-genetic Stage** imprints the **DNA** code, receiving, integrating and transmitting **RNA** signals, thus operating at species-time, making possible biological immortality, and symbiosis with Higher Life forms. **DNA** consciousness.

8. The **Cyber-atomic Stage** imprints sub-nuclear quantum-physical and gravitational signals, thus transcending biological existence. Quantum consciousness. Nano-technology.

SPECIES EVOLUTION:

At each chronological stage of species evolution, new imprints for collective-governal realities emerge. These socially-consensual neural-programs determine the positive-negative magnetic poles for culturally conditioned members of the gene-pool. Good/evil Taboo.

Collective consciousness was needed to accomplish the embryonic states of evolution. A fetus or a larval form cannot branch out on his own.

Governal (hive) consciousness was required to domesticate animals, establish agriculture, fashion metal tools, form nations and empires, build sea-going vessels, printing presses, steam engines, factories, electrical plants, airplanes, radios, movies, nuclear instruments, rockets and computers.

When the 20th century hives had the technologies necessary to leave the planet and communicate in quantum-speak, then, and only then (1987?) was it time to transcend biology and

locate the environment for evolution in the minds of individuals.
The Cyber Society.

INDIVIDUAL EVOLUTION:

In the cyber-stages of evolution each individual is responsible for fabricating the futures.

We are no longer tied to gene-pools or womb-worlds.

There are inevitable, logical stages which the Cyber-person must learn to master. To be more precise -- there are technologies which can only be operated by individuals. There is a logical geographies of worlds which the Cyber-person must learn to navigate.

The Cyber-somatic: Piloting the Individual Body.

Only the individual can operate a human body. Sorry, Gov, but that's the way it is.

Only the individual can experience and inhabit and evolve in the somatic-sensory world. Only the Indy can experience the tooth ache or the orgasm.

The first declaration of independence, the first solo intercontinental flight is control of our own body and sense-organs.

The Cyber-neural: Piloting the Individual Brain.

Only the individual can operate a nervous system. Individual consciousness is a mysterious, precious and lonely experience which cannot be duplicated by the most powerful collectives.

The Cyber-genetic: Piloting the DNA code.

The Cyber-atomic: Piloting nano-technology.

At each chronological phase of individual evolution a new imprint is formed. Each imprint determines the positive and negative foci for subsequent condition of the newly activated neural circuit. Each imprint defines a level of island reality. Recently developed techniques for reimplanting make possible serial, planful re-creation of realities.

All the activity of the nervous system is based, of course, on chemical-electrical communication.

The first four governal stages of the nervous system have been designed by the **DNA** code to deal with the Euclidian-Newtonian characteristics of the planet earth and to adjust the individual to herd-flock-tribal, national industrial realities.

The four later post-terrestrial stages are designed for the quantum-info world so that the individual can pilot through somatic signals, neuro-electric receptivity, deciphering of **DNA-RNA** signals, and integration of sub-atomic messages.

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5. We find it useful to define Twenty-four Stages of Neural Evolution: Twelve Terrestrial (governal) and Twelve Post-terrestrial Cyber quantum.[[1](#)]

Let the first twelve neurogenetic stages describe the evolution of life on this planet from single-celled organisms up to the most advanced insect and human societies and the development of the individual from birth through larval maturity, to complete hive socialization in the industrial society.

In the preceding section we have defined eight periods of human evolution.

Four are collective-terrestrial and four are cyber-quantum designed for Info-worlds and beyond.

Let the goal of evolution be Higher Intelligence -- the sequential development of the nervous system -- increasingly capable of receiving, integrating and transmitting a wider spectrum of signals of greater intensity, complexity and speed.

The more intelligent the collective species, the greater the capability of adapting and surviving. Bodies are vehicles for

transporting brains and seed. Bodies evolve to house and transport brains and sperm-ova more efficiently.

The genetic code has pre-programmed the nervous system to evolve in metamorphic stages. **The basic strategies of evolution are metamorphosis and migration.**

The sequential emergence of neural circuits in the individual human recapitulates the phylogenetic appearance of nervous systems of greater complexity.

In studying the evolution of nervous systems it becomes obvious that a three-part developmental sequence occurs.

- **Passive reception-consumerism**
- **Active integration**
- **Interactive transmission-fusion**

The neuron, which is the basic unit of biological contelligence, possesses three anatomical and functional divisions; the dendritic system which receives signals, the cell-body of the neuron which stores, integrates, interprets incoming signals and the axon which transmits the message. Each neuron, each circuit, and, indeed, the nervous system in its totality is divided into these three functions.

At the lowest level of unicellular and invertebrate life these three functions operate for the survival of the collective, but, at the higher stages of evolution, communication and fusions among individuals becomes more important for survival.

As each neural circuit emerges during the development of the individual, the passive consumer, receptive, input phase is the first to appear. The active integrating phase follows and the organized transmission linking of the organism to others is the third phase.

The development of the larval individual proceeds, therefore, through twelve phases (4 circuits x 3 orientations). Post-terrestrial, info-cyber-evolution also proceeds through twelve stages (4 x 3).

These twenty-four stages are both phylogenetic and ontological. The first twelve neurogenetic stages describe the evolution of life on this planet from single-celled organisms up to the most advanced insect and human societies **and** the development of the individual from birth through larval maturity, complete hive socialization.

A detailed description of these stages will be found in the book **The Game of Life**.

*[1] The book **The Game of Life** presents a systematic detailed discussion of the twenty-four stages of neuro-evolution -- suggesting that biological and human individual evolution is coincidental with a blueprint design to be found in the Periodic Table of Chemical Elements.*

This book treats the Periodic Table as a code-message which outlines the sequence of atomic and biological evolution and as a Rosetta stone from which some philosophic meanings of enduring human symbol-systems can be deciphered.

Same ordinal symbol systems which can be understood in terms of the periodic table include:

The Tarot, The Zodiac, The I Ching, The playing card deck, The Greco-Roman Olympic Pantheon, The Hebrew Alphabet, Icon Systems

These cultural icon systems are seen as crude psycho-logical neuro-symbolic expressions by pre-scientific culture of the model of galactic evolution which is based on the table of atomic elements. These "occult" systems are proto-scientific attempts to predict the course of evolution of life on and off the planet and can be seen as neuro-cultural communication system in which humanity symbolizes natural laws.

Info-Exo-psychology is a primer concerned with outlining eight major sequences of neurological evolution. The detailed description of the 24 stages will be found in **The Game of Life**, to which the interested reader is referred.

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6. This Book Transmits a Philosophy of Evolution from Terrestrial Gene-pools to Individual Info-space.

**This book attempts to present a philosophy of evolution.
The perspective is post-terrestrial, post-industrial, post-
collective.**

We assume (without extensive review or restatement) the facts current in (1976-1987?) and theories of nuclear physics, astronomy, DNA genetics, ethology, experimental imprinting, psycho-pharmacology, neurology and behavioral psychology.

Based on this consensus of scientific fact and on extensive experimentation with expanded and accelerated states of consciousness in the widest range of set, setting and social context, we present:

1. A Bio-neural **cosmology**, a theory of the origin and evolution of life on and off this planet.
2. A Neuro-muscular **politic**, defining the basic genetic dimensions of the freedom-control of mammalian muscular movement in territory.

3. A Neurogenetic **epistemology**, a theory defining the subjective True-False and the consensual Fact-Error of laryngeal-manual (L.M.) symbol systems.

4. A Neurogenetic **ethic**, defining what is subjectively good-bad and consensually right-wrong.

5. A Neurosomatic **aesthetic**, defining the natural, somatic dimensions of the beautiful.

6. A Neurogenetic **ontology**, an anatomical-empirical theory of the eight levels of reality, their evolution and interaction.

7. A Neurogenetic **teleology**, defining the future course of individual and species evolution, leading to longevity and galactic symbiosis with Higher forms of life.

8. A Metaphysiological Neuro-atomic **eschatology**, predicting the imprinting of the nervous system on to atomic quantum information fields.

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7. A Bio-neural Cosmology: Life Is of Extra-terrestrial Origin and Galactic Destination.

This book presents a neurogenetic cosmology -- a theory of the origin, evolution and destiny of life on and off this planet.

This cosmology suggests that Higher Intelligence, located in interstellar quantum information structures, has already sent a message to this planet. The U.F.O. message is in the form of the **DNA** code and of electro-atomic signals which can be transceived by the nervous system.

Life, a multi-billion year old unbroken info-wire of evolving contelligence is the message.[\[1\]](#) Directed panspermia. Life was seeded on this womb-planet in the form of amino-acid templates designed to be activated by solar radiation and to unfold in a series of genetic molts and metamorphoses.

It is useful to define eight evolutionary phases which probably unfold on all oxygenated womb planets in the galaxy.

Let the first four phases concern the adaptation of the collectives (gene-pools) to the Newtonian characteristics of the womb-planet. Designed for fetal survival attached to the earth surface.

During the four later phases individuals decode, integrate and adapt to the Einsteinian electro-atomic-gravitational forces operating in post-terrestrial info-space.

The first four phases are muscular mechanical and define tiny survival "island realities" to which gene-pools are attached.

During the four post-larval phases individuals navigate life off this planet.

The biological "master plan" of organic evolution located in **DNA** directs the unfolding of the circuits of the nervous system.

One major goal of life is for the individual to become Increasingly Intelligent (I^2) in order to decode somatic signals within the body, within the nervous system itself, signals from the **DNA** code and metaphysiological neuro-atomic energy patterns.

The history of life and of humanity is best defined in terms of the evolution of the nervous system and of knowledge technologies. In place of anthropological categories based on geography (Java Man), adaptive behavior (Neolithic Man), we suggest the following periods of neural evolution. Each period is considered as larval or robot to the subsequent.

1. Unicellular-invertebrate marine phase: approach-avoidance for vegetative survival.
2. Vertebrate animal phase: territorial dominance and mastery of gravity.
3. Humanoid phase: symbol manipulation, oral communication, tool-making.
4. Human industrial phase: nervous system imprinted for social role allowing for division of labor, caste, class, custom. For species survival.
5. Cybersomatic phase: insightful control of the gravity-free body. Body consciousness by the individual.
6. Cyberelectronic phase: the individual maintains insightful control of the nervous system detached from somatic programs. Brain consciousness.

7. Cybergenetic phase: the individual manages insightful communication between the nervous system and the **DNA** code leading to symbiosis and Life Extension. **DNA** consciousness.

8. Metaphysiological neuro-atomic phase: insightful communication between the nervous system and sub-nuclear energy. Quantum consciousness.

Each life form on this planet is an alien immigrant from outer space. We are all Unidentified Flying Organisms.

During the first four larval phases the emphasis is on governal membership and attachment to the earth-womb for survival in one-G space. During the four later phases the emphasis is on individual management of somatic, neurological:

5. piloting the body as zero gravity vehicle.
6. piloting the nervous system as transceiver of high-speed bio-electronic signals.
7. symbiotic **DNA** linkage with other galactic life forms.
8. transfusion with metaphysiological intelligence.

These eight neurological phases of evolution listed here are discussed in detail in the book, **The Game of Life**. It is important to note that an evolutionary, galaxy-centered cosmology and teleology (theology, if you will) is being presented. It is necessarily Psi Phy in flavor. There is no dogmatic commitment to the metaphor. It is one hypothetical, cosmological model, based upon current scientific facts from psychology, ethology, genetics, neurology, and astro-physics; one model to explain the origin and meaning to life and to predict future evolution in a context in which current human forms are seen as larval, fetal.

Cosmology is traditionally considered a "far out" risky enterprise, inevitably involving the sort of speculation that makes people uneasy. There is, indeed, a taboo censoring teleological discussions. This future-terror (Neophobia) often leads to inquisitorial repression. Bruno was burned at the stake for persisting in cosmological broadcasts, for raising embarrassing

futique questions. In his essay **On the Infinite Universe and the Worlds** Bruno presents this probing dialogue:

Elpino: How is it possible that the universe be infinite?

Philotheo: How is it possible that the universe be finite?

Elpino: How do you claim that you can demonstrate this infinitude?

Philotheo: Do you claim that you can demonstrate this finitude?

Elpino: What is this spreading forth?

Philotheo: What is this limit?

The creative cosmologist presents Hir^[2] theory and then asks the critic to explicate Hir own. And here is the tender point. Although every larval bases Hir life on an implicit cosmology (usually vague dogmas imprinted on the childhood nervous system) most practical people are reluctant to verbalize their basic beliefs, because they do not stand the scrutiny of rational view and scientific perspective:

Larval Philosopher:	How can you claim that the human being is a larval form of a future metamorphosized entity of higher intelligence and consciousness?
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Exo- Psychologist:	How can you claim that evolution stopped with the present human nervous system?
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Larval Philosopher:	It is absurd to speculate about a Higher Intelligence seeding earth with pre-programmed genetic blueprints.
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Exo- Psychologist:	What is your theory of the origin of life? Old Testament Genesis? Chance and statistical probability? Lightening bolts triggering life in methane-ammonia puddles? i.e., spontaneous generation?
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A dreadful malaise has demoralized the modern world. Spenglerian doom. This crisis is not political, ecological, energetic or economic. It is philosophic. Pre-partum depression. Technological, economic and political conferences are inevitably pessimistic because they avoid the real issues, the gyroscopic-navigational questions: Why are we here and where are we going?

Cosmological questions about origins are intimately linked to theories of destinations.

Speculations about the origin of life provide the foundation (conscious or unconscious) of every human culture. Inevitably questions about

Who did it and why?

lead to answers about how we can get to where we are supposed to go. If Allah did it, then we are en route to Allah. If no one did it then we are going nowhere.

Since each of the eight circuits of the nervous system produces its own reality, each imprint naturally provides its own answers limited to the imprint.

Circuit 1, for example, defines the goal of life in viscerotonic, vegetative, cellular survival terms -- to eat, drink, breathe, avoid pain, danger and cold. And so it goes for the other larval levels of reality.

At this critical time in history there are two broad approaches to the questions of Why? Where from? Where to? and By whom?

Evolutionists Larval Scientists

Creationists Larval Theologians

The "issue" is complicated by the fact that science and theology are inextricably linked and that many scientific evolutionists are closet creationists.

The currently orthodox "scientific" theory of evolution holds that all plants and animals have developed from inorganic molecules, stewing in the Pre-Cambrian slime, sparked into life by electro-magnetic processes three billion years ago; that chance and

natural selection working slowly but relentlessly with nucleic acid chains have produced the variety and complexity of biological life. Most evolutionists believe that all life forms derive from a common origin because of the amazing similarity of **DNA** among species and because of the apparent continuity of phylogenetic and individual development.

Evolutionists who propose this "chance-slime" theory tend to be atheistic, scientific, skeptical and pessimistic about the existence of human-type life on other planets. They tend to remain silent about the possible existence of Higher Intelligence in the galaxy. G. G. Simpson, a leading evolutionary philosopher, has cited the statistical improbability of life evolving on other planets the way it has unfolded on earth. To strict statistical evolutionists the emergence of human-type life, even on this planet, is improbable, if not impossible.

Most evolutionists rely on chance as the determining factor and attribute the apparent ascendancy of humanity upon the fortuitous accidental emergence of the unique nervous system.

Creationists vary in kind and species as widely as do evolutionists, but in general they believe that at some early period of history distinct species were separately created by a Higher Intelligence called Yahweh, Jehovah, God, Allah, u.s.w.

Many creationists rely upon the biblical **Genesis** which states that God created the various kinds of animals, that "man" was created separately and "women" as an after-thought.

Sophisticated forms of Creationism have been produced by scientists such as Carolus Linnaeus, the Father of Taxonomy, who claimed, "there are just so many species as there were forms created in the beginning." Lows Agassiz, a Harvard biologist, declared that the Creator designed the living forms we now witness.

A basic difference between these two points of view is this:

Evolutionists believe that the complex variety came from the simple.

Creationists believe that the complexity and variety were designed from the origin.

Evolutionists also tend to believe in the "accidental," chance nature of the process and to avoid the notion of a pre-destined design or designing intelligence.

Creationists have tended to be orthodox religionists who personalize the Divine Creator and tend to place humanity on the apex of terrestrial life -- usually allowing for a post-mortem, post-biological existence for chosen believers. Some theologies provide for extra-terrestrial, metaphysiological entities-demons, angels, devils, Saints. An unbridgeable gulf has developed between theological creationists and scientific evolutionists who can find no evidence for the celestial fantasies and wishful immortalities of the former.

It is interesting that few, if any, thinkers from either camp have emphasized the possibility of evolution continuing or speculated in any detail on the specific forms that the future may provide. The existence of Advanced Forms of Intelligence on other planets or in humanity's future is particularly embarrassing to scientists who have, perhaps, been scared-off by the celestial absurdities of religious orthodoxies.

Exo-psychology presumes to offer new solutions to these classic questions by suggesting:

1. that life on this planet is not unique
2. that the planet has been seeded
3. that evolution of the various species unfolds on all biological planets according to the same pre-determined plan
4. that life is designed to migrate from the nursery planet
5. the great mutations are pre-programmed to appear in our future.

Exo-psychology attempts to assemble evidence from all the sciences, to pay respectful attention to the enduring myths which bubble up from the nervous systems of the past -- and to make

practical extrapolations from both sources of data to anticipate the future.

It is thus possible to entertain a **Creative-Evolutionism** which holds that the original amino-acid templates had built into their design:

1. standard physiological and anatomical methods for creating and dealing with the various environmental challenges which coincidentally-evolve on planets like ours
2. pre-determined sequences of improvements in anatomy and particularly in neurology which allow evolving species to metamorphize to a point where they can leave the planet.

It is not necessary to accept "directed panspermia" to assume this exo-psychological point-of-view. The most conservative scientific logic leads to the future probability of:

- **improvements in the use of the nervous system**
- **genetic engineering**
- **concomitant variations in human stock**
- **extra-planetary colonization.**

Science fiction has developed into a popular form of literature. The best of Sci-Fi becomes Psi-Phy, the Psychology of Physics. Television and movies also reflect a growing interest in the mutated future. It is of interest, however, that few science-fiction writers are capable of imagining Higher Intelligence. This inability to Specify a harmonious and successful future is due to the nature of the nervous system. Caterpillars cannot write with convincing reality about post-larval life.

Since the "head revolution" of the 1960's, the basic principles of neuro-logic and reality-change have been widely accepted. While the terms **imprinting, serial-imprinting and re-imprinting** are not often used, there is growing "hip" acceptance of the notion that each nervous system creates its own reality. The vulgar, even cynical, reaction to this ontological discovery is to smile tolerantly and say, "Everyone is crazy in their own way." "Do your own thing." "Don't lay your trip on me."

The next neurological step is to accept the responsibility and say, "Since our imprints create reality, let us choose realities which are as fantastic and thrilling as possible. Almost anything we can conceive, we can make real."

If exo-psychology can imagine human intelligence expanding to extra-terrestrial dimensions, is it not neurologically possible to realize these challenging possibilities? If we can imagine directed panspermia, then it can exist. Indeed, we can do it ourselves. If Higher Intelligence has not seeded space, then there is no reason why we cannot do it. Agriculture is, after all, "directed spermia."

Here the polarities of the Evolutionists and Creationists can be harmonized. Our geneticists can help humanity become the Creator of Species, on this planet and, via interstellar migration, in space.

Humans have always created God in their own image. Neurogenetics now makes it possible for humanity:

1. To contact Higher Intelligence which may have designed the evolutionary sequence, or
2. To design the evolutionary process so as to create Higher Intelligence.

If a credible, respectable God does not exist, let us by all means invent Hir. We do need someone to talk to.

At the present time, these are simply educated speculations about the future. But it does seem probable that our micro-hopes and tele-hopes can create the realities to come.

Exo-psychology predicts that the Higher Intelligence is to be found within the micro-physiology of the **DNA** code and suggests that the most interesting way to use our time is to attempt to contact the Higher Intelligence and to hope that our neurons and amino-acids are capable of fusion with Hir.

[1] In place of the word "intelligence" Info-Exo-Psychology prefers the word "contelligence" referring to the reception (consciousness), integration and transmission of energy signals. There are eight levels of contelligence.

[2]In this transmission the union of male-female is taken for granted as a neurogenetic necessity. The general terms "man/Mankind" are never used. We employ the word SHe to refer to the generic post-terrestrial human. The generic possessive is Hir, i.e. a combination of "his" and "her."

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

8. A Neuro-muscular Politic: Defines the Eight Freedoms and the Eight Controls.

Towards the end of the sixteenth century, Giordano Bruno aroused the groggy world, asking it to fling its mind far beyond the planets. He Speculated that the cosmos extended to infinity - without an edge.

This is itself was not so shocking; but Bruno went considerably further - he postulated a multiplicity of worlds; suns and planets with life, unseen companions for the race of man. He toyed with man's conception of himself, for this, and for magical claims and political entanglements, he was burned in 1600.

Charles A. Whitney

Politics is the externalization of emotions; mammalian, musculotonic behavior mediated by the emergency (sympathetic) nervous system to seize or defend territory.

There are four levels of terrestrial freedom, four conditions of servitude, four levels of social fusion all related to the basic mammalian mesomorphic drive to get "on Top." There are also four neurological freedoms which characterize post-terrestrial existence.

1. **Biological, Viscerotonic Freedom** to protect one's life and health and the Constraint of actions which threaten the cellular survival of others. Personal health. Public health. Access to vital supplies. Expression and control of violence.

2. **The Territorial Freedom** to maintain one's living space and to move freely; the Constraint of intrusion on the living space of another or the control of the mobility of others.

3. **Technological Cerebrotonic Freedom** to manufacture, possess and use artifacts and to transmit symbols. The Constraint of using force to take the artifacts of others or to censor their symbol systems.[\[1\]](#)

4. **The Cultural Freedom** to select one's life style and socio-sexual role. The Constraint of interfering with the courtship styles, mating rites, impersonation styles, and domestic mores of others.

These basic larval Freedoms and Constraints define the muscular politics of material, Newtonian, terrestrial One-gravity existence.

Next we consider the politics of **time**.

The politics of extra-terrestrial, Einsteinian existence concern the Freedom and Control of energies within the human body, within the nervous system, within the **DNA** code, and within the structure of the atom.

5. **Somatic Freedom** to control one's own body function and sensory input. The Constraint of interfering with another's bodily function or sensory intake. The Constraint of imposing involuntary stimuli on others. Specifically this implies the freedom to ingest any drug or food and use any erotic stimulation one wishes and the Constraint from drugging, torturing or erotically stimulating others without their consent.

6. **Neurophysical Freedom** to expand, accelerate, control one's own nervous system and to broadcast and receive electronically. The Freedom to migrate from the planet. The Constraint of interfering with the brain-reward processes and the

neuro-electrical transection of others. The Constraint of interfering with the extra-planetary plans of others.

7. **The Genetic Freedom** of all life forms to live and evolve into symbiotic fusions. The Constraint of actions which threaten the evolution of other life forms. Specifically this implies the freedom to conduct genetic research; to facilitate one's own evolution and symbiosis. And the Constraint of genetic research which hurts, manipulates, enslaves or genocides other life-forms.

8. **The Nuclear Freedom** of all life forms to attain fusion with metaphysiological intelligence; to conduct nuclear particle research. The Constraint of actions which use nuclear energy to threaten the lives and evolution of other life forms.

Exo-psychology defines eight levels of Revolution-revelation:[\[2\]](#)

1. Nuclear Revelation
(quantum time)
2. Genetic Revelation
(DNA time)
3. Electronic Revelation
(brain time)
4. Hedonic Revelation (body time)
5. Cultural-sexual Revolution (hive-domestication power)
6. Technological Revolution
(mechanical power)
7. Political Revolution (musculotonic power)
8. Violence Revolution (viscerotonic power)

Exo-psychology also defines eight social groupings:

1. Fusion with nuclear structure
2. Symbiosis
3. Telepathy; cyborg fusion
4. Somatic fusion; tantra, nature communes, space colonies
5. Cultural-ethical groupings (hive, tribe)
6. Technical-professional-occupational groupings
7. Political-territorial groupings
8. Bio-survival groupings; military-medical

[1]This book is being written in prison under the well-publicized threat of assassination by extremists of both left and right. This manuscript has, at best, an even chance of getting published. Exo-psychology is not an armchair philosophy of abstractions; it has been forged in the dangerous realities of larval existence on this planet.

[2]Revolution is change or mutation in material externals. Revelation is change or mutation in neurological-extra-terrestrial energies. Revolution without revelation is tyranny; revelation without revolution is slavery.

THE EVOLUTION, STRUCTURE AND

FUNCTION OF THE NERVOUS SYSTEM

9. A Neurological Epistemology: Truth is Subjective, Fact is Social.

This book presents a neurogenetic epistemology -- a theory of what is subjectively **true** and what is consensually **factual**.

There are eight levels of truth.

1. Bio-survival viscerotonic truth: the neural signals mediated by the First Circuit which define vegetative-cellular safety and danger. (My toothache.)
2. Emotion-locomotion truth: the neural signals mediated by the Second Musculotonic Circuit which define territorial status-dominance-helplessness. (My emotion.)
3. L.M. Symbolic Cerebrotonic truth: the neural signals mediated by the laryngeal-manual Third Circuit which discriminate and connect my artifacts and my symbols.
4. Cultural-domestic truth: the neural signals mediated by the Fourth Circuit imprint which define soc-sex role. (My socio-sexual values.)
5. Neurosomatic truth: somatic-sensory. signals, free of larval-survival cues, directly registered and mediated by the Fifth Circuit. (My pleasure, my beauty.)
6. Neurophysical truth: all the neural signals registered as bio-electric impulses received by the brain. (My synaptic transmissions.)
7. Neurogenetic truth: signals sent by **DNA-RNA** to the brain. (My **DNA** memories and forecasts.)

8. Neuro-atomic truth; atomic-nuclear-quantum signals registered and mediated by the brain.

Each nervous system creates its own island realities. Truth is defined by the wiring of the individual nervous system-genetic, imprinted and conditioned. The "fact" is that the human brain deals with a reality of several billion signals a minute - changing patterns of vibrations - mediated by the eight circuits. Whatever interpretations the individual's imprinted-conditioned symbol systems impose on these energies is "true" - although it may not be "true" for others. John's First Circuit toothache is the Dentist's Third Circuit "clinical problem."

Children imprint the survival cellular tastes, the emotional muscular reflexes, the L.M. symbols and the soc-sex models of their parent-culture. This socialization of larval imprints and conditionings makes consensual communication possible. The island-realities of the child overlap the island realities of the parents and the local tribal group. The child learns the movements of the laryngeal muscles and the manual muscles that create the appropriate symbols. Epistemological games are thus learned. These social reality-islands contain names for labelling energy clusters and relating them. The L.M. symbols, labels and learned sequences of association are assigned "factual" semantic meaning. **Facts** exist only within the limited framework of the parochial game. Social reality-islands set up criteria for determining fact and error, right and wrong, which may or may not have any relationship to what is experienced by the individual as "true" or "false."

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

10. A Neurogenetic Domestic Ethic: Good is Subjective, Virtue is Social.

There are 12 larval soc-sex roles which can be imprinted by either male or female.[\[1\]](#) These roles are valued as consensually "virtuous" or "sinful" depending on their meaning to the domestication-style of the society and its sub-cultures. These roles are valued subjectively as "good" or "bad" on the basis of the Fourth-Circuit imprint.

The Fourth Circuit imprint, determined by genetic sexual-templating and the accidental proximities of adolescence, determines domesticated sex role. The style and object of gender expression-inhibition, sexual impersonation. "Good" is what triggers off the imprinted sexual response. "Good" is what excites and attracts; causes the sexual-domestic juices to flow. "Good" is what provokes the experience - "Ah, there! Now I am at home!" This can be genital penetration-incorporation. It can be parental, protective contact. It can be reception of signals indicating collective security, social approval, applause, patriotic symbols. It can be sado-masochistic contact. It can be laryngeal-manual rhythmic fusions. "Bad" is what turns-off or threatens a soc-sexual reward. To the domesticated primate (human), "good" and "bad" are subjective sexual expressions (genital, parental or sublimated-displaced). Usually secret, often unconscious.

Virtue and Sin are consensual-social. Each cultural group sets up its rules for virtuous behavior, sanctifies actions which contribute to the preservation of the hive. Society is based on the control and direction of socio-sexual behavior. The particular soc-sex virtues of the group-emotional, symbolic, and stylistic - are usually determined early in the group's history by dominant leaders who impose their fourth imprint sexual eccentricities on the culture. St. Paul didn't like women. Mohammed was polygamous-exploitive. Luther was paternal. Since most modern societies have been codified by menopausal, power-oriented men, the moral systems tend to be prudish, exploitive and chauvinistic. Social responsibilities thus determine virtue and sin - which are always sexual in origin.

The relationship among the 12 sex roles is the basis of civilization.

Various sub-cultures sanctify certain soc-sex roles and proscribe others, building elaborate ethical codes around the predilections of the mammalian politicians who seize power.

Disastrous personal and social conflicts (guilt, shame) occur because the subjective, private "good" does not usually coincide with soc-sex "virtue."

[1]These 12 roles are also stages of development, described in Part II of this Manual. While each human evolves through these 12 stages in the course of individual development - each of us is genetically programmed to emphasize one of the 12 roles which, when interfaced, makeup the 12-element human-social molecule.

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

11. A Neurosomatic Aesthetic: Beauty is Natural, Art is Artificial.

There are eight levels of pleasure. The four larval circuits provide rewarding, reassuring signals that the survival lines to the island-realities are secure. The four post-larval pleasures come from **direct awareness** of natural energy signals - the Biological equipment, freed from larval imprint, harmoniously mediating natural energies.

This book presents a neurological Zen-aesthetic - defining beauty as natural. Natural as beauty. Here again we distinguish between subjective-psychosomatic pleasure and imprinted-learned reward.

The first four circuits limit consciousness to the wiring of the imprinted and conditioned, and focus upon what is physically, emotionally, mentally and socially rewarding. The larval body is imprint-wired and trained to perform goal-directed game oriented robot sequences in Newtonian space. The billions of signals per minute which flood into the nervous system from the body and its sense receptors are censored from awareness, tuned out from consciousness at a brain-stem reflex level. The survival tactic is obvious. The body is a trillion-cell, poly-organ bio-survival instrument. If the four-brained individual tunes into the myriad symphonic waves of polymorphous signalry flashed by the senses, SHE could not attend to larval survival responsibilities.

The brain, of course, "knows" every precise detail about the anatomy and physiology of the body and monitors millions of signals per second, but the larval robot mind is "slave-wired" to reflex reaction, unable to decipher or consciously control its own equipment.

Each of the four larval circuits has its imprinted reward-pain cues which are limited and stereotyped: food preferences, emotional cues, L.M. symbolic reflexes, sexual-domestic comforts. When the "mind" discovers that the "body" is a polymorphous, psychosomatic Zen-pleasure-laboratory designed for zero-gravity floating, with trillions of cells merrily copulating every second, imprinted rewards seem pale, static, and second-hand. The activating of "natural body consciousness" is a dramatic step in evolution. The Hedonic Resurrection of the Body is the first step towards extra-terrestrial existence, a profound philosophic discovery, none the less "spiritual" because it occurs in the context of anti-social hedonic behavior, forbidden to the domesticated terrestrial.

We have called this emergence of the Fifth Circuit a "hurtling of the hedonic gap." With the four neuro-umbilical lines retracted, the "mind" discovers that the "natural is the beautiful," that the source of intensified pleasure is somatic function, that there is no social reward or terrestrial gratification which can compare with body consciousness. We have called the Zen experience of the Fifth, somatic Circuit **rapture**. The body freed from terrestrial attachments, ready to navigate in the zero gravity of interstellar existence.

The existence of the Fifth Circuit and the natural rapture experience has always been a taboo topic proscribed by larval social law because it is instinctively recognized that if the human being discovers a source of pleasure and revelation within his body, the commitment and dedication to terrestrial social rewards will diminish. This is the genetic predisposition to escape from the social imprints. Historically it is no accident that the aesthetic, rapturous experience was accepted by affluent aristocracies who are "above and beyond" social sanctions.

We have seen that each neural circuit as it emerges tends to regard the preceding stage as immature. The suckling infant is immature to the walking child. The post-pubescent flushed with the new experiences and secret discoveries of the "boy-girl-game" looks with amused tolerant scorn at the symbol-manipulations of the pre-adolescent.

It is also true that each of the imprinted "minds" looks with anxious disapproval upon newly emerging realities which tend to disrupt its stability.

We speak here of "neurogenetic politics." Metamorphic chauvinism. The transition periods in the individual's growth, as new circuits emerge, are stormy, unsettling, and vulnerable. It is well known that adolescence is such a period of **sturm and drang**. The emergence of a new person, a new tunnel-reality-identity, is based on complex bio-chemical changes, intricate new live-wiring of millions of neural fibres, the development of and taking-over by higher neural centers, the ascendance of new imprints, and new bio-electrical patterns. The fragility of these neuro umbilical transitions is not well understood. The passage from a First Circuit state, with its emphasis on passive security, to the second state of mobility and power exposes the nervous system to frightening vulnerability. The babe leaves the mother's arms to face the play yard. The adolescent facing with a newly-activated sexual body the pressure to develop a social identity.

The delicacy of this process and the permanence of the new imprint "fix" is both awesome and awefull. A new person is created as each circuit of the nervous system emerges.

The new extensions of the reality-island must be hooked up without disturbing the earlier "realities." The new "person" must be integrated.

The human being is at present a confused, frightened, embryonic creature, mutating from Circuit 4 to Circuit 5, from terrestrial to extra-terrestrial existence. Humans would be well advised to treat each other gently at this stage in evolution because mutation is a lime of uncertainty and fragility. Indeed, since the individual recapitulates evolution in Hir own life it would be

helpful if, at each larval stage, the child were given accurate information about the neurological changes that are occurring. The facts of metamorphosis explained.

Unfortunately the different demands of the different imprints are externalized as politics, dogma and ethics. Neurological differences "exstitutionalized" as social conflicts. The dread which the child and the larval adult feels in response to the pressure to change, the suspicion of different conceptions of reality, the inability to adapt to change, are caused by the most basic larval insecurity - a loosening of the neuro-umbilical imprint connections.

The transition from the Fourth to the Fifth Circuit is complicated because it has been viewed as anti-social. The perils of hedonism! The socially dangerous discovery of the rapture circuit: "My natural bodily sensations are more pleasurable and more interesting than territorial social-rewards. I want to stay loose and high. Mundane affairs are robot."

During the 1960's both Presidents Johnson and Nixon clearly recognized that the American work-aesthetic was threatened by hedonism. While young men lost interest in fighting on far-flung foreign shores, ominous comparisons were made in State of the Union speeches to the "fall of the Roman Empire." The misguided implications were that Hedonism corrupted the Empire and, that if Decadence could be checked, the Empire would continue expanding.

The static moralism of Johnson-Nixon fails to perceive the evolutionary cyclical nature of history. Just as blossom follows bud so does virtuous republic (Stage 11) become centralized empire (Stage 12) and empire flower into somatic hedonism (Stage 13). It is to slow this trend that the socialisms ban rock-and-roll.

In the past, hedonism invariably led to the collapse of empire. Imperial Capture could not compete with private rapture. Hedonism has, therefore, never been recognized by larval historians as an evolutionary advance, but as a social threat. When the somatic nervous system can be attached to and detached from larval imprints at will the first step away from imprinted-robothood

has been taken. The Fifth brain begins to transceive directly the first language of nature - the metacultural biochemistry of the body. When the individual begins to attain control of neurosomatic function, can dial and tune the pleasures of the body, SHe is taking the first step towards control of the nervous system.

In the book **The Principles and Practice of Hedonic Psychology**,[\[1\]](#) a crude attempt was made to encourage a science of neurosomatics, a systematic study of the psychology of pleasure. Hedonics is not an end-point, but must be seen as a transitional phase in the evolution towards extra-terrestrial existence.

The emergence of Hedonic Psychology in the 1960's was greeted with official scorn and persecution. Larval politicians correctly saw the cultural perils of hedonism. The neurosomatic perspective frees the human from addiction to hive rewards which are now seen as robot) and opens up vistas of natural satisfaction and meta-social aesthetic revelation. The revelation is this: "I can learn to control internal, somatic function, to select, dial, tune incoming stimuli, not on the basis of security, power, success, or social responsibility, but in terms of aesthetics and psychosomatic wisdom. To feel good. To escape from terrestrial pulls."

Since the Neurological sixties we have seen an efflorescence of consumer sensuality and body interest. Massage, sensory awakening, yoga, martial art, diet, health-food-fads, erotic performance. The "new hedonics" is a manifestation of the first beginnings of Circuit 5 Zen Consciousness.

The triggering causative factor in this Fifth Circuit mutation was, of course, the discovery of neurosomatic drugs. In the 1960's people in technological societies discovered that neurosomatic chemicals "turn-on" the body and provide escape from mundane reality-islands. The moment of this discovery is, for most, an ethical detonation. Bodily revelation has been routinely condemned as immoral by every larval social-ethical system at the same time it has been eloquently praised by those aesthetes who have tuned into the somatic network. But the problem of neurosomatic rapture is that it is a post-larval reaction, and has mixed survival value for terrestrial existence.

The ability to receive, integrate, and transmit somatic sensations, to control the body as time-ship, is necessary in extraplanetary existence but can be a dangerous distraction for mundane life. The drug culture of the 1960's produced millions of en-raptured hedonists, Hippies, sensualists, nature-lovers floating free of social ties but with no place to go. Some Zen philosophers cynically make a virtue out of this navigational uncertainty. Werner Erhart, for example, glorifying the meaningless of life.

Activation of the Fifth Circuit marks the infancy of interstellar existence. Hippies and Zen adepts are grounded butterflies, neurologically ready but technologically unprepared for flight. Instead of being hailed as harmless heralds of a mutation to come, they were predictably derogated and forced underground.

Musicians, poets, artists, aesthetes have traditionally been the exponents of neurosomatic consciousness and of drugs which enhance sensory experience because the Fifth Circuit defines the aesthetic level of reality. The Einsteinian relativity of direct sensuality, of the natural. The Zen insight. "That's the way it is: beautiful."

Beauty lies in the neurosomatic "I" of the beholder.

Each circuit of the nervous system has its own imprinted criterion for "pleasant" or "rewarding." At Circuit 1 Mother's apron or the gun can be pleasant. Safety is beautiful. Circuit 2 welcomes stimuli promising dominance and mobility. At Circuit 3 L.M. symbolic rewards appear beautiful. A hundred dollar bill. At Circuit 4 there is the sperm-egg stimulus - "the girl's underpants" memorialized by Kurt Vonnegut. These positive cues are sought for their imprint-conditioned reward and not for the aesthetic pleasure of the natural "seen" as it is.

Larval reward-pleasure has been institutionalized in the form of "show-business" and social "art." The skillful artist unconsciously selects the stimuli which social conditioning has associated with safe-dangerous, powerful-weak, competent-stupid and sexually arousing. The criteria for what is considered artistically successful are stylized, socially conditioned, learned in terms of larval symbols. Fifth Circuit rapture, however, is the

response of the sense organs to natural stimulation, divorced from terrestrial conditioned meaning.

In advanced civilizations of the past, the Fifth Circuit was attained by adepts and hedonists who created the disciplined tradition of sensual-delight. Somatic art is the Zen aesthetic of the naked-natural. Direct stimulus by-passing symbols. Neurosomatic art gets the body high.

The origin of much social art is somebody's neurosomatic signal which has been socialized-imprinted and learned as "artistic."

At the present time our scientific knowledge of bodily function combined with our technical affluence (especially birth control devices) has brought us to a point of Fifth Circuit breakthrough. Humans are devoting more time to body-consciousness, learning how to tune into somatic conversations, master somatic yogas which provide precise control of bodily function.

However, beauty and rapture are not evolutionary ends in themselves, but anticipatory preparations on the part of a neurogenetically evolving species for extra-planetary existence.

*[1]Abstracted in the January 1973 issue of **Psychology Today**.*

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

12. Neurogenetic Ontology: There are Eight Anatomical Levels of Reality.

This book presents a neurogenetic ontology - a theory of eight levels of reality and their interaction.

All realities are neurological-patterns of impulses received, stored and transmitted by neural structures. **Consciousness is defined as energy received by structure. Intelligence is defined as energy transmitted by structure. For the human being the structures are neural circuits and their anatomical connections.** Please re-read the last three sentences.

For thousands of years ontologists have speculated futilely about the nature of reality. There can be no more room for debate. Surely the nervous system determines every aspect of human reality. What is "real" is what is registered by nerve endings, coded in neural memory banks, and transmitted by nerve fibres.

The ontological question is so easily resolved we wonder why there was ever any confusion. After all, the circulation of the blood was understood four centuries ago. The structure of the nervous system, the fibrous wiring of the sense organs, and the connections to the brain are so anatomically obvious that one is puzzled at the inability of earlier anatomists and physiologists to understand that the nervous system is the seat of consciousness and thus the solution of many ontological questions that have vexed

and confused man's thinking. We face here, perhaps, another contrived, deliberate stupidity, a protective myopia, a species taboo which shrouds attempts to explain consciousness and intelligence-expanding processes. The facts about the nervous system are too robot embarrassing, too challenging to larval theological and political systems. It is just too early on the evolutionary clock for the species to face the neurological facts, for the robots to decipher their own circuitry.

Consider the sad fate of Julien Offray de Lamettrie, whose futique genius caused him to be dismissed from his medical posts and exiled to Holland:

Lamettrie demonstrated by comparative methods the relationship between man and other living beings, and proceeded to a theory of the evolution of organisms. He stated that psychical life is observable already on the lowest level of evolution. **Investigating the functions of the brain, Lamettrie tried to discern various stages of its formation which are of primary importance in the development of mental life.** Also he protested against an evaluation of the moral character of men which depends on the acceptance of religious doctrines. Although Lamettrie was described as a crude materialist, he also influenced idealist philosophers.

This 'scapegoat of 18th century materialism' has been blamed and despised by many who had not read a single page of his books.

He is best known for **L'Homme Machine**.

Four-brained humans cannot accept a scientific neurogenetic ontology which places reality within the changing flux of the nervous system and not in the comforting solidity of the imprinted-conditioned reality-islands. "Man the machine" is an unbearable concept to those who are not ready to mutate beyond the lower, robot circuits.

One cannot evolve from one's robothood until one realizes how totally one has been robotized. A succinct presentation of this point will be found in Gurdjieff's comments on mechanization quoted by Ouspensky: **In Search of the Miraculous**.

Exo-psychology suggests that there are as many realities as there are neuro-anatomical structures for transceiving signals. As the seven neuro-anatomical circuits unfold, so do seven broad classes of reality.[1]

1. **The First Reality, Bio-cellular**, is the imprinted-conditioned world of the infant perpetuated in the viscerotonic survival techniques of the adult.
2. **The Second Reality, Locomotor-muscular**, is the imprinted-conditioned world of the crawling, brawling, walking child perpetuated in the emotional-political techniques of the adult.
3. **The Third Reality, mediated by the left cortex**, is the imprinted-conditioned world of the child learning to manipulate L.M. symbols and perpetuated in the linguistic-technology of the adult.
4. **The Fourth Reality** is the imprinted-conditioned world of social-sexual, domestic responsibility.
5. **The Fifth Reality, Body Consciousness** is the reception by the body of direct, natural signals uncensored by survival imprints and selectively aware of the demands of gravity.
6. **The Sixth Reality** is the imprint of the nervous system of and by and unto itself. Einsteiman consciousness no longer frozen to larval circuits or to the body. Brain reality is a relativistic, changing Niagara of millions of bio-electric signals flashing around a thirty-billion cell network. The statement "consciousness is no longer frozen" is not metaphorical; it refers to biochemical-electrical changes at the synaptic level which liberate the flow of signals from routine patterns. The term "static, imprinted-conditioned world" refers to neural-wired programs hooked to reality-islands.
7. **The Seventh Reality** is the reception by the nervous system of **RNA** signals from **DNA** molecules within the cell. Genetic messages leading to symbiotic inter-species telepathy. Since reality is energy registered by neural structure, we can "see" only what we are ready instrumentally and conceptually to receive. At the Seventh Circuit **DNA-RNA** signals are monitored.

[1] **The Eighth Reality** is meta-physiological, meta-biological and involves contelligence projected out from the Quantum Projection Booth. See the publications of the Physics Consciousness Research Group by Sarfatti, Sirag, Herbert et al.

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13. An Interstellar Neurogenetic Teleology.

Exo-psychology defines an Interstellar Neurogenetic outlining the **DNA** pre-programmed course of individual and species evolution.

A complete philosophic system generally includes:

1. A cosmological explanation about where we came from and how it got started
2. A political theory explaining the factors involved in the destructive and harmonious expressions of territorial autonomy, control, freedom, restraint, mobility
3. An epistemological theory defining truth-falsity and right-wrong
4. An ethic defining good-bad, virtue-sin
5. An aesthetic defining beautiful-ugly, artistic-unartistic
6. An ontology defining the spectrum of realities
7. A genetic teleology explaining where biological evolution is going and how it will all turn out, and

8. An ultimate metaphysiological neuro-atomic eschatology explaining what happens when consciousness leaves the body.

The aim of Life is:

S.M.I².L.E.

Space Migration

Intelligence Increase

Life Extension

We are designed to Use our Heads (I²) in order to Use Time (L.E.) in order to Use Space (S.M.).

Of these three associated imperatives Intelligence Increase is the most important. When the human has learned how to use the brain as instrument to:

4. selectively re-imprint the four terrestrial circuits
 5. control the body
 6. master the creation of multiple realities by means of serial re-imprinting
 7. imprint (i.e. experientially identify with the DNA code)
 8. decipher nuclear-quantum intelligence
- then Life Extension and Space Migration will be attained.

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14. A Metaphysiological, Neuro-atomic Eschatology: Biology Evolves to Quantum-Gravitational Contelligence.

The ultimate question is: what is the end point of biological evolution?

The exo-psychological answer: contelligence mutates by fusing with, being absorbed by metaphysiological structures found in nuclear-quantum-gravitational force fields.

Neurologically it could be said that the emergence of each new neural circuit involves a "death-rebirth." The Neonate infant molts and becomes the mobile child. Although the "reality" of the infant is surely different from that of the "same" individual at age 18, the first brain remains linked to, part of the evolving neural network. Thus, in the evolution of the individual, the emergence of new neural circuits defines a series of incorporative re-incarnations. Metamorphoses.[\[1\]](#)

Genetics defines another, more enduring form of perpetuation. The **DNA** code is designed to keep itself alive, to remain immortal. If, as exo-psychology suggests, we can imprint **DNA**, learn how to consciously decipher **RNA** signals, we can experience the **DNA** time blueprint which contains the program of neural evolution back three billion years and forward for several billion years. The **DNA** registers and remembers signals received

by the body and the nervous system which it currently "drives." Each of us thus lives on via absorption in **DNA**.

But neurological and genetic re-incarnation processes are still biological. Contelligence at the level of nerve cells and protein molecules obviously cannot compare with the scope, speed and power of elemental sub-nuclear processes.

The egocentricity and geo-centricity of larval philosophy has over-estimated human intelligence in relationship to other energy forms - in particular the **DNA** code and the atomic nucleus. Larval science would have us believe that the universe is made up of chemical elements and atomic particles which operate in blind passivity to physical laws; that at a certain point in the history of planet earth certain molecules were accidentally induced by means of lightning bolts to form the protein-nucleotides which, through chance, began to replicate; and that through a process of random selection and mutation the biological forms evolved. The summit of this blind evolutionary process, we are told, is homo-sapiens. "Man" is believed to be the only self-conscious, intelligent form on the planet and probably in the universe!

Exo-psychology suggests that this flattering self-appraisal is false - an error which leads both the arrogance and the frightened pessimism which characterize human philosophy.

From the exo-psychological point of view all biological forms are transient robots created by **DNA** to house and transport the genetic "brain" **DNA**, just as the Third-Circuit L.M. muscular mind designs and constructs machines to serve human purpose, so has **DNA** built fragile, replicable organisms, including humans. It is apparently difficult for the human mind to conceive of the degree to which **DNA** intelligence is superior to the human intellect. The complexities and time spans dealt with by **DNA** are as superior to human intelligence as the human is to a wind-up doll.

The great primitive exo-psychologist William Blake posed the question:

"Tyger, tyger, burning bright,

In the forests of the night,

What immortal hand or eye

Dare frame thy fearful symmetry?"

The answer is **DNA**. And what enduring intelligence burning bright in the forests of the night-time sky designed **DNA**?

The genetic code is surely not an accidental adhesion of molecules. It is an instrumental message, an energy directive created by a meta-biological intelligence.

This intelligence is astrophysical and galactic in scope, pervasive, ubiquitous, but miniaturized in quanta structure. Just as the multi-billion year blueprint of biological evolution is packaged within the nucleus of every cell, so may the quantum-mechanical blueprint of astronomical evolution be found in the nucleus of the atom.

We have defined consciousness as energy received by structure. And we have defined intelligence as energy transmitted by structure. The contelligence of life-forms is shaped and limited by anatomy and organic form. Sub-atomic-gravitational force fields are obviously capable of faster, more complex and more extensive levels of consciousness and intelligence.

Exo-psychology hypothesizes that the evolution of astrophysical structures involves a contelligence as superior to **DNA** as **DNA** is to neuron-brains.

The direction of organic evolution now can be stated. Starting with unicell organisms, life produces a series of neural circuits and increasingly more complex-and-efficient bodies to transport and facilitate higher contelligence. The culmination of this biological process is the seven-circuit brain which is able to communicate with **DNA**, i.e. receive, integrate and transmit information at the level of **RNA**.

Among the byproducts of the seven-circuit brain contelligence are telepathy and inter-species symbiosis (including symbiosis with the more advanced species which probably exist on half of the millions of inhabited planets in our local galaxy).[\[2\]](#)

The eighth phase of evolution is transformation of contelligence to meta-physiological, neuro-atomic structures. This

quantum-mechanical process does not necessarily involve the destruction of organic memories or biological contelligence - but probably an incorporation of the neurogenetic into the nuclear-gravitational-quantum.

Metaphysiological contelligence transceives at the speed and frequency of nuclear particles and can create matter, i.e. arrange atoms in architected patterns. Such a level of contelligence could construct pre-programmed **DNA** codes as simply as humans now build computer-directed manufacturing processes.

It is, of course, almost impossible for the primitive L.M. symbolic mind to conceive of the capacities of quantum intelligence. Does not logic, however, force us to accept the probability of this Higher Form of contelligence? The only other cosmological-eschatological alternatives currently offered are:

- accidental, haphazard clustering of proteins and carbohydrates triggered by lightning bolts in the Pre-Cambrian slime leaving "man" the highest dismal form of a ruthless survival battle, or
- anthropomorphized police-court Jehovahs of monotheism.

The very fact that some primitive human beings can conceive of superior meta-physiological contelligence specifically based upon current scientific evidence encourages us to assume that Higher Contelligence can at least equal our extrapolations and empirically-based speculations. To put it bluntly, if we can figure out the possible nature of a higher quantum mechanical Contelligence, certainly "they" who await in the genetic future can do as well or better.[\[3\]](#)

To summarize this summary of the 8th Eschatological Circuit: organic life evolves to become part of a metaphysiological contelligence which is nuclear-gravitational in structure, and which creates unified force-fields, galactic in scope, quantum in nature.

[1]Exo-psychology predicts that, in the development of the individual child the activation of each unfolding circuit is preceded by a pre-molt crisis. Psychologists and educated parents in the future will learn how to anticipate, recognize the emergence of

pre-molt crises and to guide the child through the unsettling phases.

[2]Telepathy (i.e. neuro-electric communication) is a post-terrestrial phenomenon. Telepathic communication cannot occur while we are crawling around on the bottom of a 4000 mile atmosphere ocean any more than vocal-symbolic communication can occur among marine animals. We have to crawl out of the water to activate the Third-circuit (left brain). When we leave the surface of the planet and live in free space, telepathy (Sixth circuit contelligence) will occur.

[3]Who are they? They are we-in-the-future.

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15. Neural Chauvinism: Every Body Has a Favorite Reality.

Larval realities are defined by islands of local environment attached to the nervous system at the time of imprinting.

From the scientific viewpoint **reality** is an ocean of electromagnetic vibrations whirling constantly through different cycles of speed and swirling momentarily into temporary structures including bodies with nervous systems.

The human nervous system is genetically designed to receive a small band of waves along the cyclic frequency spectrum.

Human consciousness, i.e. personal reality, is determined by the point along the frequency spectrum where the neural dials are tuned.

In a previous section it was suggested that the nervous system has evolved through twelve larval-terrestrial stages and will in the future metamorphize through twelve post-terrestrial stages. As new species emerged, new and more complex stages of the nervous system evolved. Uni-cellular species remain at the primitive level of approach-avoidance. Most mammalian forms remain at the level of individual muscular dominance. Others, the herd-flock species, reach a level of pre-symbolic social communication. Primitive humanoids remain at a level of symbol-

manipulation and artifact construction but do not attain domestication and the division of sexual responsibility manifested by **homo sapiens** and some insects.

In companion books **The Periodic Table of Evolution** and **The Game of Life**, it is hypothesized that systematic seasonal variations in solar radiation create alterations in **DNA** templating at the time of conception which determine human neurogenetic "types." And that the twelve Zodiac "signs" may crudely personalize twelve species very different in neurological wiring which reflect and recapitulate twelve stages of phylogenetic and human evolution. Each Zodiac "species" thus represents the mastery of one of the twelve neurological stages which are involved in the evolution of life on our planet - preparatory for extra-terrestrial migration.[1]

Just as the members of insect colonies are genetically pre-programmed to play certain roles necessary for hive survival - worker, drone, warrior, fertile male, brood queen - so are there twelve larval types of human.

These genetic types have been vulgarly popularized as the twelve Zodiac signs, the first twelve Tarot personages, the twelve Greco-Roman divinities. Each of these twelve types can be considered as genetically separate; each contributes to the human larval evolutionary process and each carries a printed-out nervous system geared to a specialized survival task.

In addition to genetic specializations, the environmental models imprinted at the four periods of individual development define island realities which vary from person-to-person and from group-to-group. The language and dialects to which the child is exposed during the emergence of the Third Circuit lay down muscular patterns in the larynx and hand which are fixed and which limit the cognitive-symbolic reality.

This unique specificity of reality means, among other things, that we find twelve larval species and numerous cultural-imprint groups of human beings wandering around the planet, for the most part existing in different realities. To add to the

confusion, since the 1960's we have several million half-mutated Hippies floating aimlessly.

People unconsciously recognize this selectivity of island realities. Social avoidance and clustering tend to respond to these reality chauvinisms. Anyone who is different is crazy or alien. Xenophobia is based on primate neurology. The hive cannot tolerate other realities.

Ontological chauvinisms are deeply rooted in fixed genetic and neural structures. In spite of the ignorance about their neural machinery, human robots manage to communicate with each other about material needs with amazing efficiency.

[1]The tradition of using twelve peers in a trial by jury may be an unconscious recognition of the twelve species of humans which populate larval society.

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

16. Imprinting is a Single-flash Exposure of the Neural Film which Defines and Limits the Neuro-umbilical Reality.

The discovery of neural imprinting could be one of the four most important intellectual achievements of the human race. The other three are: the Einsteinian-quantum-mechanical equations involving space-time-energy; the astronomical location of earth in the highly populated galaxy; and the decoding of the genetic-evolutionary process which makes possible bio-chemical longevity, genetic control and symbiotic communication.

Understanding of the sequential imprinting of the nervous system adds the fourth card to the Psi-Phy deck.

Imprinting is the process by which neural circuits mediating specific neuro-umbilical survival behaviors (along paths of discharge laid out in advance) select the stimulus in the environment, internal or external, which determines the timing and direction and object of the discharge.

The imprint is a neuro-umbilical life-line extended from the nervous system to that energy cluster on the planetary surface that offers material, survival stimuli. Once attached, the larval nervous system is hooked for life - unless retracted by accidental trauma; or

retracted deliberately - in which case post-larval contelligence is attained.

The facts about imprinting originally came from the science of ethology, "The comparative study of animal behavior under natural conditions or of laboratory study which utilizes methods and problems suggested by field observations," (William Etkin).

Konrad Lorentz and Nico Tinbergen were recently (1973) awarded the Nobel Prize for their pioneering work in this field.

The most fascinating aspect of the imprinting process is this; the original selection of the external stimulus which triggers off the pre-designed response does not derive from a normal learning process but a short exposure during a brief, specific "critical period" of the animal's life.

The infant body is like a space ship floating on the strange new planet. The imprint is a life-line extended in blind robot fashion groping for hospitable surface to which it attaches and roots - thus creating the reality island.

"If imprinting is not accomplished during the first few days of existence, it will not "take" at any other time. Such an animal will fail to respond appropriately to any other animal, and no amount of association with members of its species will bring out the response." (Etkin.)

It has been found that "if young birds are handled by the experimenter during their first few hours of life, they will thereafter react to him and to other human beings as they normally would to their parents." The groping neuro-umbilical attaches to the first warm, moving body it contacts.

"Most remarkable, indeed, is the fact that when the animal which has been imprinted to a human being becomes mature many months later, it will show courting responses to humans even in preference to its own species. Hand-trained birds commonly display courting behaviors to the trainer's hands."

The implications of imprinting theory applied to human behavior are embarrassing to our rational conceptions of self, ego, conscious choice; indeed, they suggest an ontological helplessness

which takes on the dimensions of a Sci-Fi robot tale. The neurological situation is as follows: The human body is made up of many receiving organs and discharge systems which are controlled by the nervous system, a communication network of some thirty billion cells. Each organ of the body is wired by a complex pattern of nerve fibres. Each neuron receives, evaluates and transmits information to as many as 60,000 other neurons. The particular wiring pattern which triggers off each organ and action system of the body is programmed by imprinted stimuli. The specific stimulus which activates each neuro-umbilical survival system is determined by accidental coincidence - the external factors present during the "sensitive period." Human Beings are robots programmed and directed by neural imprints which trigger off standardized discharge patterns in response to accidentally imprinted cues.

The newborn baby is equipped with the behavior patterns necessary for immediate survival: to turn towards the mothering stimulus and suckle. Shortly after birth the baby's nervous system takes a picture, i.e. focuses all the sensory equipment on the soft, warm, milk-producing stimulus and permanently photographs this picture as "survivally good" and safe. If this viscerotonic imprint is not taken because of absence during the critical period of the appropriate stimulus, the basic "survival security" system is not effectively wired-up to human contacts.[\[1\]](#)

A most crucial aspect of neural imprinting is that the four larval neural circuits unfold chronologically. Each of the four neuro-umbilical life-lines is extended in turn when each neural circuit emerges.

For example, before adolescence the sexual circuit is rudimentary. During adolescence dramatic physiological and anatomical changes occur in the primary and secondary sexual organs. These changes are so pronounced that we might with wisdom speak of a metamorphosis analogous to the transformation of the insect from larva to butterfly. At this time the neural circuit which mediates sexual activity unfolds. There is a critical or "sensitive" period of sexual imprinting. The sexual antennae emerge and blindly scan for a place to root.

The first time the sexual system is fired in all-out response, a sexual imprint is taken. The state of activity of the entire neural system at the time of imprint determines the way the sexual system is wired - i.e. the cues which arouse it. The sensory, emotional, mental and social stimuli form a pattern (sexual climate) which facilitates subsequent arousal and discharge.

The accidental vicissitudes of Fourth Circuit sexual imprinting have been well known to psychiatrists. Early erections and orgasms can create kinky fetishes.

The mechanics and neurologic of the mental symbolic Third Circuit imprint are less familiar. The acquisition of speech and manipulative behavior involves a special imprinting of third brain wiring of laryngeal and manual muscles. Thinking is accomplished by moving the nine muscles of the larynx. During the period when the child is mastering speech, the mental style of the contiguous human models is being absorbed. These models are parents, and, more important, older children. The tender tendrils of symbolic mental activity are extended. This is a most vulnerable period. The mental styles and emotional models of the people in the environment determine whether the child's mind is open, trusting, or withdrawn, rejecting.

The child imprints (wires up) a specific method of thinking. Once this intellectual pattern is imprinted, subsequent education has little effect on the modes of mental manipulation. The eight cognitive modes used by the laryngeal-muscle-mind are described in Chapter 3 of **The Eight Calibre Brain**. The imprint attaches to the model present at the critical period of extension.

1. **Circuit 1 biosurvival language is global.** The movements and sounds which say, "I am safe," "you are safe," are recognized by almost all animals regardless of culture. Behaviors which express pain or physical threat are also generally recognized. We speak here of eating, vomiting, sucking, disgust, embracing, moaning, physically aggressing or menacing.

2. **Circuit 2 emotional language:** Gestures, postures and verbal tones which communicate a status message are almost universally recognized. The gestural signals for affiliation,

dominance, submission, begging, giving, coercion and passive complaint require no cross-cultural dictionary. However each culture has a specific vocabulary of status - accents, gestures, ornaments, conspicuous possessions, postures.

At one point a Cadillac car indicates highest status; shortly later a Cadillac indicates a pimp or cocaine dealer from the slums. And so it goes.

3. **Circuit 3 L.M. language:** Symbols and artifacts are limited in comprehensibility to cultural groups which share the similar imprint, i.e. were exposed at the critical period to the same styles of laryngeal dexterity and manual symbolization. Class, caste, and craft-guild issues are important. Included in these Third Circuit cultures are:

artifact groups

verbal dialect groups

literacy groups

scientific groups

occupational groups

sports and game groups

A central concept in exo-psychology is this notion of personal neural-reality, which differs from person to person. Each of us deals with a world which is defined by a unique pattern of neural wires and fixed umbilical life-lines. Just as we can try to understand the emerging stages of human development by analogy to the metamorphosis of insects (since we are too close to the situation to appreciate metamorphosis in ourselves), so we can understand the electro-neural uniqueness of "reality" by considering the consciousness islands of other species.

Consider the snake. Observing with our optical scanners we "see" a mouse run across the floor and a snake turn its head and strike. We assume that the snake "sees" what we see: a furry, brown animal. A study of the snake's neural receptors indicates, however, that the snake uses heat receptors to locate prey. What the snake senses is a neon spot of "warm" moving across its screen. It is robot programmed to strike at "heat."

Human beings often interact across similar "reality" gulfs. They are robot-programmed as differently among the selves as the human and the snake.

Humans vary in the number of L.M. languages they can exchange. Some, the most primitive, communicate only in the oral dialect of their childhood neighborhood and can manipulate only the simple muscle-moved artifacts of village life.

The highly civilized larval has mastered hundreds of L.M. symbol systems. An educated Russian or American can speak and write each other in several languages, cooperatively manipulate a wide variety of mechanical artifacts, professional sequences, scientific codes, sports and game rituals.

In communicating with a larval, once it has been established by non-verbal cues that Circuit 1 is safe and Circuit 2 is cooperative, the next step is to establish which L.M. muscle-thought languages are shared and can be appropriately exchanged. Most larval interactions are brief and limited. Artifact transactions. Buying. Selling. Service performances. Superficial socializing designed to elicit cultural reassurance. Extended L.M. symbol conversations are loaded with complexity because emotional factors inevitably intrude. The giving of information to others is often resented because the possession of information implies power.

The Third Circuit of the nervous system is activated when the young child is in a position of weakness. Those who teach the L.M. symbol systems are adults or superiors. The ability to learn symbols is determined by the emotional context - the person with the information is placed in a superior position over the receiver.

The nervous system is interconnected by means of synaptic links. The synapse is the gap between two neurons across which the nerve impulse flows. The synaptic connection is chemical, just as chemicals "fix" the photographic image on film, so is the neural image of the island-reality "fixed" by synaptic chemical bonds at the time of imprinting.

The robot truth is this: **the patterns of neural connection create the picture of reality.**

The human nervous system imprints social cues. A child growing up finds a certain stability and consistency in the social cues SHe imprints. Hir parents speak the same language, share rituals with the family next door. This consensual agreement provides the illusion of a "reality" shared with those in Hir culture group. "Sanity" is defined in terms of one's ability to convince oneself that SHe perceives what others do. Festinger and other social psychologists have conducted "cognitive dissonance" experiments which show how easily and naturally human beings distort objective data to fit neural expectations.

Social consciousness is a web of neuro-umbilical fabrication woven by conditioning and continual adaptive distortion.

We believe what we are imprinted to believe. We think that the tiny turf to which our neuro-umbilical life-lines attach is "reality."

The fact of separate, subjective realities based on individual imprints (reality islands) is frightening for the pre-neurological human to accept. We recall the parable of the eight blind men and the elephant. This separateness accounts for the terror that is felt in the presence of an "insane" person. In many cases the person called "insane" or "hallucinating" is actually aware of the neural insulation which separates people and might be considered more sane and accurate than the deluded "normals." Ontological terror is the naive reaction to the discovery that there are other realities beyond one's own imprint and learned neural patterns.

We have used the metaphor of neuro-umbilical life-lines to describe the attachment of the nervous system to local environments via imprint. Security means that the imprinted life-lines are securely fastened to a stable island-reality.

Another metaphor often used by neurologicians to describe the creation and limitation of subjective reality by imprint is the "bubble." Castaneda's don Juan gives a good description of the reality-of-the-imprint which he calls **tonal**.

"Sorcerers say that we are inside a bubble. It is a bubble into which we are placed at the moment of our birth. At first the

bubble is open, but then it begins to close until it has sealed us in. That bubble is our perception.[2] We live inside that bubble all of our lives. And what we witness on its round walls is our own reflection... The thing reflected is our own view of the world. That view is first a description, which is given to us at the moment of our birth [more accurately, the moment of imprint] until all our attention is caught by it and the description becomes a view," [that is to say, a reality]

from **Tales of Power**, pp. 246-247

*[1]Failure on the part of the neonate to imprint a human target for the First Circuit creates childhood schizophrenia, the autistic child. This process and its remedy are discussed in sections 1.3, 1.4, and 1.5 of the book **The Eight Calibre Brain**.*

[2]Don Juan consistently uses the word "perception" to describe consciousness. The formation of the "imprint bubble" can be clearly "seen," experienced during L.S.D. sessions.

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17. Imprints Can Only be Changed by Bio-chemical Shock.

Let us, for a moment, visualize the nervous system by itself (apart from the body) as a bio-computer with 30 billion reception-evaluation-output centers (neurons) wired-up together and mediated by hierarchical centers. The various sense organs receive billions of signals a minute. The output fibres fire billions of signals per minute. Imprints lay down the basic connections which pattern and guide neural activity.

There is, for example, the First Circuit emergency system which, when the "danger" cues are received and evaluated, commands millions of survival actions. Early "danger" imprints and genetic programs cue this powerful, basic system which effects, when mobilized, every organ in the body. Fear! Once the First Circuit has imprinted a fear stimulus, the only way this chemico-electric synaptic pattern can be changed is to suspend or replace the wiring. The intransigence of human "phobia," and "security-blankets" is caused by imprints.

The only way to rewire neural patterns is to interfere with the neurotransmitter sequence at the synapse, thus retracting the old imprint and allowing for a new imprinting. Shock, illness, trauma, drugs, child delivery, stimulus deprivation and electrical charge are the only ways to change the chemistry of the synapse. When action inside the body becomes overwhelmingly intense so

as to alter synapse chemistry, the imprint life-lines to the external environment are retracted. The chance to re-imprint is offered.

When the concept of neural imprinting is understood, techniques for psychological treatment will be changed. The doctor will teach the patient the principles of re-imprinting and the patient will select the new reality SHe wishes to create. Democracy and collaboration are necessary in neurologic treatment. The doctor cannot prescribe or control the treatment, because the result is a new reality for the patient.

Medical practice will also be altered. Infection or malfunction of an organ of the body can produce chemical changes which require recircuiting the neural wiring. When the somatic infection is cured the emergency "sick" wiring may remain in operation preventing the restoration of normal function. Conversely, infection or malfunction may require curative changes which are blocked by the normal "wiring." This view of the nervous system as a programmed bio-electrical network may help explain the "mysteries" of acupuncture. The needles have little effect on the fleshly system, but, particularly when energized with mild electric charges, may affect the synaptic programs which regulate the function of the organ. In the near future we may see Neurologic replace psychology and Neurosomatic-medicine replace the vague concept of psychosomatic medicine.

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18. Conditioning Associates a Stimulus with an Imprinted Response.

The notion of imprinting has created some confusion in psychology because it suggests a form of "learning" which is immediate and irreversible, quite in contrast to conditioned learning which is the foundation of most psychological theories. According to the classic definition: "Learning is a relatively permanent change in behavior that occurs as the result of practice." Learning is based on associating one stimulus or response with another on the basis of reward or punishment. Psychological theories of learning are based upon observations of external visible behavior and pay little attention to the internal, invisible neurological situation.

The classic studies of conditioning were executed by Ivan Pavlov, the Russian physiologist.

'While studying the relatively automatic reflexes associated with digestion, Pavlov noticed that the flow of saliva to food placed in the mouth of the dog was influenced not only by the food placed in the dog's mouth but also by the sight of food. He interpreted the flow of saliva to food placed in the mouth as an unlearned response, as he called it, an unconditioned response. But surely, he thought, the influence of the sight of food has to be learned. Hence this is a learned or conditioned response.' - Hilgard and Atkinson, Introduction to Psychology, Harcourt Brace.

Later research demonstrated that animals could be conditioned to salivate in response to a flashing light, sounds, visual forms, etc. 'The conditioned response may be considered a simple habit because 1) an association is demonstrated to exist between a stimulus and a response, and 2) this association is a learned one.'

To understand the learning process it is necessary to understand the primary role of the imprint and the secondary role of the conditioned-association. The imprint hooks the natural unconditioned response to an external stimulus - the releaser mechanism. The conditioned stimulus is associated with the imprinted stimulus. Imprinting is the basic connection between the external stimulus and the nerve endings; and between the nerve endings and the response.

Conditioning then connects (wires up neurally) other stimuli which are associated with the imprinted stimuli. The learned stimuli can then trigger off the response connected neurally to the original imprinted stimulus.

If the infant's First Circuit is positively imprinted to Mother, other stimuli associated with Mother become learned cues which can trigger off the "positive-approach" response. The infant's First Circuit is negatively imprinted to stimuli - tastes, smells, forms - which are noxious or dangerous. Stimuli associated with "danger" trigger off the withdrawal reaction (fear).

Conditioning psychologists have studied the relationships between unconditioned stimulus-response units and learned reactions in terms of the similarity of stimuli (generalization), the reinforcement or reward of the conditioned stimulus-response by the unconditioned, the waning or extinction of the learned association in the absence of the unconditioned reward, discrimination of differences between stimuli, etc.

Classical (Pavlovian) conditioning focuses on the presentation of conditioned stimuli in association with the original unconditioned stimulus to the response (e.g., salivation).

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19. Operant Conditioning Links Performed Behavior with Reward- Punishment.

Operant conditioning studies behavior which bears little resemblance to the genetically pre-programmed behavior that is normally elicited by the reinforcing stimulus (i.e. salivation is the dog's normal response to food but rolling over is not). B. F. Skinner, the founder of the school of operant conditioning, distinguishes between **respondent** and **operant** behavior.

'Respondent behavior is directly under the control of the stimulus, as in the unconditioned reflexes of classical conditioning: the flow of saliva in the mouth, the constriction of the pupil to a flash of light on the eye, the knee jerk to a tap on the patellar tendon. The relation of operant behavior to stimulation is somewhat different. The behavior often appears to be **emitted**; that is, it appears to be spontaneous rather than a response to stimulation... When operant behavior becomes related to a stimulus (as when I answer the ringing telephone), the ringing telephone is a **discriminated** stimulus, telling me that the telephone is answerable, but it does not force me to answer. Even though the ringing telephone is compelling, the response to it is operant and not respondent behavior.

'The word **operant** derives from the fact that operant behavior "operates" on the environment to produce some effect.

Thus going to where the telephone is and raising the receiver from the hook are operant acts that lead to the telephone conversation.

'To produce operant conditioning in the laboratory, a hungry rat is placed in a box... The inside of the box is plain, except for the protruding bar with the food dish beneath it.

'...the experimenter attaches the food magazine, so that every time the rat presses the bar a pellet of food falls into the dish. The rat eats and soon presses the bar again. The food reinforces bar pressing...

'With this illustration before us, we are ready to consider the meaning of conditioned operant behavior. As indicated above, it "operates" on the environment; the rat's bar pressing produces or gains access to the food. In classical conditioning the animal is passive; it merely waits until the conditioned stimulus is presented and is followed by the unconditioned stimulus. In operant conditioning the animal has to be active; its behavior cannot be reinforced unless it does something.

'A large part of human behavior may be classified as operant - turning a key in a lock, driving a car, writing a letter, carrying on a conversation. Such activities are not elicited by an unconditioned stimulus of the Pavlovian type. But once the behavior occurs it can be reinforced according to the principles of operant conditioning.'

'...[operant] behavior is sometimes called instrumental behavior because it produces effects just as a tool or other instrument does. Hence operant conditioning is also known as instrumental conditioning.' - Hilgard and Atkinson, *ibid*.

We have considered these definitions and principles because operant conditioning and behavior modification are becoming popular and politically potent aspects of the current behavior-control movement. An increasing number of psychologists are employing conditioning techniques to "shape" the behavior of people who are judged to be disturbed or anti-social; these in addition to the legions of psychologists who attempt to manipulate the behaviors of others in advertising, education and mass media propaganda.

Neurologic may help people to understand what conditioning psychologists are trying to do and why they are doomed to failure.

Conditioning psychologists are behaviorists. They are concerned with observable, measurable movements in space-time. Behaviorism developed in the 1920's as a reaction to "introspective," "faculty" psychology which explained human nature in terms of invisible emotional and mental states attributed to the conscious "mind." Behaviorism, unhappily, chose to model itself after Newtonian mechanistic visible physics just at the point when Einsteinian concepts and invisible states were emerging. In the last half century we have seen an increasing "interiorization" of physics and genetics. The significant (and significantly overlooked) fact about the new micro-sciences is that functions, meanings, lawful regularities have been located in internal structures invisible to the naked eye which are, in many cases, similar to the spiritual faculties assigned by psychoanalysts, theologians and philosophers to metaphysical entities within the human "soul" or "psyche." Ancient Hindu theories about the unity of consciousness, for example, now find empirical confirmation in descriptions of the nervous system as an interconnected network of thirty billion cells. Ancient Vedic concepts of the unit of life are confirmed by the discovery that there is only a slight difference in the amino acid configuration which makes up the genetic material of all living entities, plants and primates. The theories of physicists like Jack Sarfatti and John Aichibald Wheeler bring consciousness back to the center of the nuclear and quantum-mechanical stage.

When we review the work of conditioning psychologists from the perspective of a seven-circuit (plus one) nervous system, we can see precisely where and why behaviorism is limited. Operant conditioning is concerned with the behavior mediated by the social brain. Learned instrumental actions. Skinnerism is the crowning philosophy of the Third Circuit society, the mechanical civilization which began in the neolithic and which climaxed in Henry Ford's assembly lines. Skinnerism is the final philosophic statement of the puritanical protestant-ethic manipulators who dominated the world for 400 years up to Hiroshima. In this context let us reconsider the ominous surgical implications of the standard

definition: "The word operant derives from the fact that operant behavior 'operates' on the environment to produce some effect... To produce operant conditioning... a hungry rat is placed in a box... A large part of human behavior may be classified as operant - turning a key in a lock, driving a car..." This is the third brain at work.

During World War II Professor Skinner was in charge of a War Department Project to train pigeons to peck at panels which would home unmanned bombers into "enemy" targets.

There is another aspect of the operant conditioning model which merits comment.

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20. Conditioning Cannot Change an Imprint.

Skinnerians attempt to "shape" Third Circuit symbolic, manipulative behavior. This can be a futile or dangerously coercive business. Operant conditioning "works" by means of immediate and continual reinforcement. Imprinting requires no reinforcement. As the Psi-Phy Jesuit might say: let me imprint the infant and you can futilely try to condition the child; let me imprint the child and you can futilely try to condition the adolescent; let me imprint the adolescent and you can futilely try to condition the adult.

The imprint requires no repeated reward or punishment. The neural fix is permanent. Only bio-chemical shock can loosen the neuro-umbilical lines. The conditioned association, on the contrary, wanes and disappears with lack of repetition.

And neural imprints are themselves derivative structures compared with genetic templates which determine the form of the neural robot.

Neural imprints are accidental, local targets for the bio-electric forcefields laid down by **DNA**, which organize **RNA** to construct the body and the nervous system.

Humanity has evolved to the point where the knowledge of how to control the nervous system is available. Neurologic has developed rudimentary methods for suspending imprints and

creating new neural imprints. Although this knowledge is uneasily suppressed, the basic concept that "reality" is created by the individual nervous system is understood by millions of persons born after 1945.

But genetic engineering is much more important than neural engineering. The research of Paul, Stein and Kleinsmith on non-histone proteins which turn-on **DNA** offer the key to genetic control. And the work of Bruce Niklas at Duke reminds us of the intransigence of chromosomal patterns which determine body structure.[\[1\]](#)

There are two groups of technocrats clamoring to change the behavior of their fellow citizens. Right-wing punitive coercers. And liberal rewarders. The attempts of both groups of bureaucrats are futile because they attempt to re-condition - rather than re-imprint.

Punitive coercion works only as long as the threat remains and thus requires a police state.

The liberal social psychologists believe that they can change behavior by democratic, supportive, egalitarian education methods. Head-start programs. Peace Corps. Behavior-modification. Bussing. Tutoring. Scholarship payments. Insight therapies. Mental health methods.

These liberal approaches fail to effect change and serve only to support the "humanist" welfare bureaucracy.

The experimental psychologists, for whom B. F. Skinner is spokesman, are more intelligent. They believe that they can impose behavior change by means of involuntary operant conditioning. This, however, requires total and continual control of reinforcements-rewards and punishments. The problem is that psychological methods work only when the conditioners are continually present to reinforce. The liberals have to be there constantly doling out welfare payments, scholarships, grants, interpersonal strokes.

The Skinnerian manipulators must be there constantly controlling environmental response.

As soon as the "subjects" are left alone to their own devices they immediately drift back to the magnetism of the imprint (and the structure of the genetic template).

This creates no problem with domesticated middle-class people who have imprinted the docility and fear which provide internal controls for the Second Circuit, the repetitious symbol manipulation of the Third Circuit and the "shame" of the Fourth Circuit. Society's schools carefully imprint children to be stupid so that it is a simple, rote matter to inhibit questioning intelligence. Symbol-stupidity is so pervasive in every larval society that there is almost no chance for a child to be exposed to an open, fast, mobile, factually truthful, electrically circuited mind. The inefficiency of psychological conditioning and the immovable solidity of imprints is seen most clearly in the Fourth Circuit. It is almost impossible to recondition a sexual imprint, to "cure" a homosexual with Social-symbolic rewards or by physical punishment, electric shocks and aversion drugs. Let us inquire of the psychological conditioners how much success they have had in removing sexual fetishes, specialized imprinted lusts. When the Fourth Circuit sexual machinery is wired to a particular external lust stimulus even menopause cannot alter what biochemistry has etched, engraved, stamped into the synaptic linkdge.

*[1]Niklas reports that if chromosome strands are experimentally disarrayed (by poking them with a micro-needle) the molecules move back into the original sequence - much the way iron filings "swim" into position in response to magnetism. This suggests that some sort of energy-field pattern operates to keep the **DNA** code coherent and logical. A microscopic genetic brain integrates and controls the evolutionary signal.*

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21. A Society Based on Conditioning Behavior Must Rely on Control and Secrecy.

The larval societies now controlling the planet can only maintain themselves by the increasing use of coercive and manipulative conditioning methods to shape, direct and control behavior.

B. F. Skinner, the Harvard behaviorist, in his book **Beyond Freedom and Dignity**, has presented the case for the Political Conditioners. It can be paraphrased simply "Since human beings, allowed to behave freely, will not act responsibly, they must be psychologically coerced, conditioned to be dutiful, virtuous, reliable, prompt, efficient, happy, law-abiding. Humans must be continually manipulated by rewards and punishments to do the right thing."

There are two aspects of this social conditioning regime which are not stressed by Skinner. To make it work, the government psychologists must have **total control** over the citizenry and there must be **total secrecy** and censorship.

In 1961 there came to the Center for Personality Research at Harvard University an enthusiastic Skinnerian who reported on the applications of operant conditioning to patients in a mental hospital. One of the behaviors to be inhibited was hallucinatory

talk. Now there are many among us who believe that hallucinations have a functional role in the psyche and would consider the automatic extinguishing of hallucinations a violent restriction of some message that has importance in the emitter reality, even if it is not understood or considered useful to the psychologist's reality. Using the technique of immediate reinforcement, the Skinnerians would instantly produce a cigarette every time the patient made a non-hallucinatory comment and would take the cigarette away every time the patient would hallucinate. The researcher gleefully announced that the rate of hallucinatory comments dropped by a significant level. Even more impressive changes in behavior accompanied the giving or deprivation of food. The Skinnerian glumly complained that hospital rules prevented them from carrying out this experiment to the useful point of starvation. "If we had total control over food intake, we could really shape behavior," said the operant conditioner, who may or may not have heard the soft comment by one staff member that this technique had been used by most of the dictators in world history.

In order to condition human behavior it is necessary to get control of stimulus early in childhood and to maintain this control throughout life. In the psychological utopia, conditioning would be accompanied by continual psychological testing so that special aptitudes and potential trouble-makers are identified early in the game and special conditioning programs set up, tailored to eliminate individual eccentricity.

Political conditioning requires not only control of reward and punishment, but also secrecy.

One dissident, freedom oriented psychologist can totally disrupt a psychological fascism by public exposure. If parents and even children are warned about the method of conditioning they can consciously decide whether to cooperate or to resist, passively or actively. Psychological tests are, for the most part, ineffective, if the subject has been warned about the purpose and construction of the tests. Even the use of drugs in brainwashing can be counteracted by the person who learns about the specific effects of neuro-chemicals.

Psychological conditioning techniques cannot be employed in a democracy where minority groups can campaign against and publicly discuss the techniques being used, and publish the answers to screening tests, where citizens have the right to avoid the conditioners.

Thus the proposals of B. F. Skinner cannot be implemented except in a state where the government has total control of communication.

Without these controls continually reinforcing, continually reminding (e.g., the omnipresent slogans of the police state, the omnipresent advertising directives of the consumer state), people just plain forget what they are trained to do and drift back to their imprints. And to their genetic-robot styles.

Consider the dog who rolls over to get his bone. Will the dog toll over in the absence of the master? This is the nightmare that haunts the aging Mao.

Human behavior is determined by:

genetic-neural template (zodiac type)

and

imprint.

When the child gets to school it is too late to teach Hir. If SHe has imprinted, from hir home or peer-group, a dexterous symbolic mind, SHe will learn in spite of the teachers.[\[1\]](#)

A very thin veneer of operant-conditioned behavior creates the flimsy facade of domesticated civilization.

Larval humanity now faces a genetic cross-roads. Some will choose to solidify social conditioning by manipulating the child's environment and thus domesticating the imprint. Maoism.

Others will choose to mutate to a higher level where each person is taught to manage and control Hir own imprinting and conditioning. We can expect that many different social groups will emerge along both of these directions.

We have just considered the genetic, neural and social limitations of conditioning. We shall now consider the liberating and limiting implications of **serial re-imprinting**.

[1]The word "mind" refers to the basic orientation of the muscles of the larynx and the right-hand which determine the style of symbol manipulation upon which social conditioning grafts its rewards and punishments.

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22. Imprinting Is Limited by the Local Environment.

Learning, conditioning and other educational or coercive methods of behavior-control write their messages on sand. After each daily tide of association and reward-punishment the associations must be repeated. The coercive nature of learned behavior is not clearly seen because it appears voluntary, indeed, the conditioned robot is obsessively drawn back to his place in the sand box. Larval civilization is a Beckett landscape. Every morning millions of humanoids rush to their sand-piles and reconstruct them.

The ordeal of Sisyphus was an exciting heroic adventure compared to the monotony of social conditioning. The robot, operant-conditioned to symbols, is a reward addict. If we remove the symbol-rewarding environment, if we fail to produce the conditioned stimulus, the humanoid robot goes mad, because SHe has nothing to do. We can accurately speak of stimulus junkies. If there is no sand box and no sand to work on, there is panic. Social deprivation creates desperate reward hunger. The social reality of conditioned response requires continual rewarding. The prisoners continually rebuild their restricting reality walls which crumble if they are not continually reinforced.

Operant conditioning is robotry and can exist only in a controlled, scheduled, coercive society.

If, to continue this rather gritty metaphor, conditioning is building sand structures, imprinting is like stamped-out metal patterns. Trying to recondition an imprint with reward punishment is like dropping single grains of sand on a forged steel pattern. Decades of sand can wear away the iron pattern. Senility can wear down the imprint. The aging politician gets lazy, the aging homosexual becomes too fatigued to cruise. Etc.

To change the shape of metal forms one must apply energy sufficient to rearrange the patterning of molecules. Change the electromagnetic field. So it is with neural imprints. Just as heat is used in metallurgy, so is it necessary to apply massive biochemical energy to loosen the molecular synaptic bonds. Internal stimuli - drugs, trauma, illness, deprivation, shock - can retract the external neural life lines.

Just as heated metal hardens into the new form, so does the re-imprinted nervous system harden into new circuits, freeze back into new membrane forms. We speak here of psychedelic metallurgy, serial re-imprinting, the neurologic craft of recasting the seven minds, recircuiting the bio-electric wiring.

With the present repertoire of Sixth Circuit neurotransmitter drugs it is apparently only possible to re-imprint about once a week. You cannot re-imprint every day. It takes from five to seven days for the new-mind-mold to harden. LSD research indicates that it takes a retractory period of a week for the structure to build up.

If a person had a full-scale LSD re-imprinting experience once a week for forty years, two thousand re-imprintings would be possible. This is to say, two thousand serial-reincarnations could be experienced. It is obvious that even if one played out all the myths, imprinted all the available soles, focused re-imprints on every sense organ and combination thereof, one would be hard-pressed to find and live out that many reincarnations.

The dismal fact about casual LSD sessions is that the ill prepared person tends to re-imprint the past conditioned structure, thus charging with new energy the habit patterns of the old island reality.

It is a fundamental principle of exo-psychology that conditioning centers around the positive and negative poles of the imprint. The imprint-fix is sudden. Post-imprint conditioning, however, takes time and repetition. Around the initial sexual imprint, for example, there builds up, over the years, billions of conditioned associations. This forms the structure of personality.

During a re-imprinting session it is probable that the new imprint includes the old conditioned structure. You re-imprint your spouse, for example. Where new models are imprinted, it is necessary to start building up new circles of conditioned reflexes around the new imprint. This takes time. Some early LSD researchers concluded that a six month waiting period should occur between LSD sessions. In psychological terms, to "work through the new insights." The exo-psychological phrase is "to allow new conditioning to network around the new imprints." But the new imprint model must be present during the reconditioning.

Neurologic, therefore, requires that one plan one's re-imprinting sessions carefully so that those aspects of previous realities which one wishes to exist in the future reality are present to be imprinted and new models imprinted during the "sensitive" period remain around to allow new conditioned associations to build up around them.

Usually the person re-imprints the old conditioned stimuli.

One often hears the complaint from people who have taken LSD repeatedly that, after a while, the "trips" were the same. Such comments reveal a lack of knowledge of the re-imprinting process. If the recasting of the mind occurs over and over again in the same place with the same set of characters (usually one's larval egos) then the same neural form repeats. This is like having the most precise and expensive photographic equipment and, without moving it, continuing to photograph the same object.

A more thoughtful use of the recasting, reincarnative potentialities of the nervous system was exemplified by the two neurologicians, a newly married couple, who embarked on a psychedelic world tour. The first step was to purchase 'round-the-world air tickets which had to be used within one year. The couple

then thought of themselves as orbiting satellites of the planet who had to accomplish the circumnavigation in twelve months.

The procedure was to fly to a country and to enquire as to the "spiritual" center of that nation. In Japan, they were told to go to Kyoto. In India, to Benares. In Greece, to Eleusis. Etc. In Kyoto they asked where the spiritual center, the "soul" of Kyoto was to be found. They were given many suggestions and visited each center to pick up neuro-genetic vibrations. They spent a week reading about the history, politics, culture, art, myths of Japan and Kyoto. Then they went to the "holiest" place, ingested a Sixth Circuit neuro-active chemical which suspended old imprints and opened the nervous system to new imprints - which in this case were structured by the architecture and regalia of the Emperor's palace. For six hours they absorbed the signals of the place and became neurologically Japanesed.

This is the only way to "see the world"[\[1\]](#) to retract the imprint roots and move the unattached nervous system to a new locale to which the neural lines are extended (See diagrams 13-24.)

Without such flexibility - vulnerability - we can experience nothing outside the membrane that was formed at the time of the last imprinting - which for larvals is the time of adolescence or, in the case of women, their last child-birth. Most world travellers move their robot-bodies from country to country experiencing only symbolic versions of their own home grounds.

Such neural touring is not an end in itself, but a rudimentary training exercise for neurologicians learning how to use the Einsteinian serial possibilities of the brain.

The goal of the neurologician is to increase not just consciousness, but intelligence. Contelligence; to learn how to move and change realities by means of serial re-imprinting. When the nervous system can be used at Einsteinian relativistic speeds, the passive limitations of the nervous system itself become apparent. There are basic genetic dimensions of reality-construction which cannot be changed by re-imprinting. Just as operant conditioning is futile when compared to neural imprinting,

so is imprinting superficial when compared with the **Genetic Template**.

We recall: imprinting hooks the bodily-neural equipment to one basic external. The environment (including the body) imprints the nervous system just as film is imprinted in a camera. However, the camera is designed and constructed by **DNA**. The filming process is limited and guided by the structure of the camera.

The most obvious illustration of the relationships among conditioning, imprinting and genetic templating is seen in the sexual response.

DNA, at the time of conception, stamps out the sex and model (zodiac type) of the nervous system.

The nervous system at puberty then imprints the release-stimulus of the sexual machinery. Then social conditioning either supports or ineffectually (and often cruelly) deals with the outcome of this three-layer programming by means of social rewards for virtue and social punishment for "sin."

The conflicts, internal and social, which plague larval humanity are often due to discordance among the social-neural-genetic structures.

It is a simple matter to change conditioned behavior. Just move into a different reward punishment scene.

It requires neurologic know-how to change imprints.

The genetic template, the most powerful determinant of human behavior, cannot, at this time, be changed; it can only be understood and adapted to. When post-larval humanity has evolved to Stage 20 (Genetic Engineering), it will be possible to change genetic pre-disposition.

[1]We use the word "see" in the sense of don Juan as contrasted with "looking."

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23. The Most Intelligent Use of the Nervous System Is to Imprint the Genetic Code.

The structure of the body and of the nervous system is pre-designed by the genetic code.

The code is an amino-acid time-script which contains the multi-billion year sequence of biological evolution. Past and future.

The first task of Life on this planet was to transform the atmosphere. Plant life produces the oxygen atmosphere necessary for later phases of mobile, animal life. This process is called **terraforming**.

When oxygen was produced, the code simply kicked into action the gills, lungs, and oxygen-transporting systems in the body to produce the next phase of evolution.

The evolution of humanity for the billions of years to come may already be pre-programmed in the genetic code, blocked from expression by chemical masking barriers called histones, and turned on by non-histone proteins.[\[1\]](#)

The blueprint of **DNA** has designed us to move life off the planet and to enter high-velocity, time-relativity states, to attain symbiotic longevity, to construct and direct nuclear-fusion energies

which will transport us through the galaxy, and eventually to evolve beyond matter as we now know it.

The intelligent person in the year 1976 has available enough evidence to predict the general course of future evolution, and on the basis of these inevitabilities, to participate in a neurological mutation. It is about time to use our heads; become very contelligent, very rapidly.

One who allows Himself to be controlled by conditioning or accidental childhood imprinting is accepting robothood. To follow the genetic instruction it is necessary to retract larval imprints and to create new neural realities, new languages based on Einsteinian relativities. Create the future and then imprint it.

Neurologic is the science of selective re-imprinting. The use of the nervous system as motion-picture camera. The conscious creation of a sequence of realities.

It must be remembered, however, that neurologic is a tool for neurogenetics. It is of little use to go on re-imprinting larval realities or somatic realities. The Sixth Circuit is designed for extra-terrestrial existence, for post-human, genetic consciousness. Neurotransmitter drugs, like LSD, are thus seen to be post-larval in function.

The **DNA** code contains the entire life blueprint - the history of the past and the forecast of the future. The intelligent use of the brain is to imprint the **DNA** code.

[1]The future of post larval humanity rests dormant in the unused portion of our genetic code just as the "butterfly" potential lies hidden in the chromosomes of caterpillars.

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24. Evolution Requires that Some of Us Become Conscious Agents of the Future.

Up until the present, human beings have been neurologically unable to conceive of the future.

This inhibition (Neo-phobia) is genetically imposed. The larval nervous system creates earth-bound realities. For the caterpillar to "think" about flying would be survivally risky. Indeed the caterpillar cannot "think" about flying because it has no wings. We assume that pre-human forms of life have no awareness of time, no ability to look into the future; that mammals operating with the two immediate survival circuits have no conception of the evolutionary plan.[\[1\]](#)

The key to evolution beyond the larval forms is the understanding and control of time.

The emergence of the laryngeal-manual circuit, the paleolithic unfolding of left-hemisphere symbol-manipulating and logical-ordering allowed humanity to transmit vocal, written and artifactual time-signals across the generations. Operant conditioning, instrumental learning assures the transmission of culture from the past to the present.

Larval time-binding involves very short periods and narrow perspectives. The farmer looks to the next harvest. The politician

looks to the next election. The bureaucrat looks forward to payday, to the weekend, to the summer vacation. Parents look to their children.

Larval civilizations operate on the basis of calculated ignorance about the future. The four-brained person does not want to know about the future because it threatens the stability of the reality imprint. Four-brained societies do not want to know about the present, because prospection would lessen the motivation to work blindly towards organized uncertainty.

There is a taboo about future forecast. The book **Future Shock** seems to be more about **present shock** and describes the terror and confusion created by a world which is different from the past; i.e. different from one's childhood imprint realities. Prophobia is so intense that the future cannot be faced in a best-selling book.

Even the scientific groups who try to project the future are curiously unable to foresee an evolving neurological-mutational change. The Club of Rome, the RAND Corporation, Herman Kahn all present statistical extrapolations of material trends of the past projected to the future. Thus we are told that the future will be a global extension of a Swedish Los Angeles. All the current predictions by "futurists" forecast an air-conditioned ant-hill world in which personal freedom, creativity are limited by population pressure, scarcity and restrictive social control.

There is one possibility routinely omitted in future projections - a sudden global raising of contelligence. The "I"² of S.M.I².L.E.

The 1960's witnessed a general raising of consciousness, a massive "mind-fission," a widespread retraction of larval imprints. The new realities imprinted were not thoughtfully selected. While there was a "drop-out" away from the artifact-symbols of the parent-culture and a joyful hedonic acceptance of the rapture of direct sensation ("feel good, stay-high"), there was an unfortunate tendency to reject technology and scientific thinking. The drug-culture of the 1960's wandered around, "spaced out" (this is a good term), "high," but with no place to go.[\[2\]](#) One generation too early for interstellar migration.

Into this neural vacuum rushed the "occultists," second hand Karma dealers, Jesus-salesmen, "spiritualists," fad-cultists, astrologers providing occult terms and "other-worldly" explanations for the new transcendental states.

The question of the 1960's was: After retracting imprints from the material culture, where do you go? The answers of the past were: back to Jesus, back to Hassidism, back to India, back to the nature simplicity of the pioneers. The Here and Now of Transcendental Masturbation. The "Me" generation.

The consciousness fads became soothing terrestrial "turn-offs," offering peace of mind, detached serenity, health-foodism, feel-good sensory supermarkets for pre-mature mutants who have no idea of where to go. The water-bed fad is a classic example of pre-mature 5th Circuit mutation, with its hint of zero-gravity sensory freedom.

The hedonic spirit of the 1960's was a manifestation of Stage 13, the receptive, exploratory use of a new neural circuit. It is natural that the first post-larval generation would appear confused, dis-oriented, frivolous, irritatingly vague. The task of the next generation is to learn how to transmit the new experiences, to raise intelligence, to control time, to create extra-terrestrial models based on scientific evidence.

A mutation is always disturbing to the larval culture. No one wants the reality game to become bigger than one's childhood imprints.

The genetic time-table has reached the point where humanity is beginning to understand how the nervous system operates and how robot-synaptic reactions can be suspended. A new level of contelligence is defined.

[1]This assumption may be another anthropocentric myth. The bee-hive, in its elaborate structure, may be a time-binding cultural signal to new generations of bees. U.s.w.

[2]"Stoned" is a bad term, as is "loaded."

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25. A Wide Variety of Future Post-human Forms Will Emerge.

The evolutionary process schedules mutations with a relentless continuity. Every living organism plays a part in the evolutionary design.

There are eight answers to the basic question, "Who am I and where am I going?" In terms of genetic teleology the question is: "In which direction am I mutating?"

The genetic perspective is taboo and frightening because it forces us to face certain embarrassing facts:

1. **The human species is an incomplete form which is undergoing dramatic changes.**

The human race (and, indeed, life on this planet) is now at the half-way point. In three billion years we have evolved from uni-celled organisms. In the years to come we shall manifest changes much more dramatic.

2. **The rate of evolution is accelerating.**

The human condition is changing at an accelerated rate in terms of physique, neurological function, ecology, density and diversity of population, etc. Consider the human situation 25 years ago, 50 years ago, 100 years ago, 1000 years ago, 10,000 years ago. Now assume that the same rate of accelerated change

continues. How will we evolve in the next 25 years? The next thousand years?

3. **The evolutionary process produces an increasing spectrum of differentiations. The present human gene pool will evolve in many different directions. It is probable that hundreds or thousands of new species will evolve from the present human genetic stock.**

The social implications are startling. Of the next hundred persons you meet it is probable that each will evolve into a new species as different from you as the rabbit from the giraffe. About 75 million years ago certain insectivore species (lemurs) contained the seed-source from which the 193 varieties of primates, including the human, were to emerge.

To understand yourself, to understand the human situation it is useful to project a prospectus of how the human species is going to evolve.

Much of the conflict and confusion which characterizes the current human plight can be gentled and clarified if we accept the fact that we are genetically very different from each other and inexorably pre-programmed by **DNA** template to evolve in many very different directions.

The work of geneticists like Paul, Stein and Kleinsmith suggests that **histones** mask the half of the **DNA** code which contains the futique design of the organism. If it were possible for one to pull back the histone curtain and see the blueprint of one's genetic future one would have a most revealing answer to the question, "Who am I and where am I going?" The question must be posed in the first person singular. The error of genetic democracy led Gauguin to ask, "Where did we come from and where are we going?" The question can only be asked, "Where am I going? What genetic futique do I carry in my genes?"

Each of us transmits a pre-coded design of future organisms very different from current human stock and very different from most other humans.

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

25. A Wide Variety of Future Post-human Forms Will Emerge.

The evolutionary process schedules mutations with a relentless continuity. Every living organism plays a part in the evolutionary design.

There are eight answers to the basic question, "Who am I and where am I going?" In terms of genetic teleology the question is: "In which direction am I mutating?"

The genetic perspective is taboo and frightening because it forces us to face certain embarrassing facts:

1. **The human species is an incomplete form which is undergoing dramatic changes.**

The human race (and, indeed, life on this planet) is now at the half-way point. In three billion years we have evolved from uni-celled organisms. In the years to come we shall manifest changes much more dramatic.

2. **The rate of evolution is accelerating.**

The human condition is changing at an accelerated rate in terms of physique, neurological function, ecology, density and diversity of population, etc. Consider the human situation 25 years ago, 50 years ago, 100 years ago, 1000 years ago, 10,000 years ago. Now assume that the same rate of accelerated change

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26. The Post-larval Must Be Very Cautious in Communicating with Larval Humans.

Exo-psychology holds that the human larval exists in a reality defined by the four survival imprints. Although the brain receives 100 million impulses a second, mundane consciousness is limited to signals which have been conditioned to one of the four imprinted game boards.

Unconditioned sensations, the raw swirl of an unfiltered reality, exist as background noise.

In communicating with larvals the following points must, therefore, be remembered:

The Larval has no interest in you, you do not exist, unless you can hook into Hir limited reality-island, transmit on Hir narrow mind-band, unless your behavior offers meaning in terms of possible benefit or threat to Hir:

- **cellular well being**
- **emotional-hierarchical status**
- **artifact manipulation game**
- **socio-sexual security; domestic reassurance.**

All larval interactions are instrumental to one of the four survival attitudes. Larvals are comfortably adapted to this limited four-channel communication, scan automatically for the survival meaning of each stimulus and scuttle by each other like ants, each intent on Hie own "reality" - reacting automatically to relevant cues from others.

Larval communication occurs in terms of four systems, some of which are comprehensible to the entire species, some of which are limited to members of the same cultural-imprint group.

Larvals do not like to receive information unless the facts fit into their 3rd Circuit reality net and immediately reward their emotional status. Democrats were delighted to hear the facts about Nixon, but Republicans were irritated and resistant.

Larvals submit themselves to learn new symbols only under special motivational circumstances where the new connections build on and confirm established systems or give promise of future emotional rewards of which the teacher is model.

Larvals fervently resist new symbols which require a change in their network of associations. This resistance to learning is not psychological; it is neurological and bio-chemical. New ideas require a change in the wiring of associations and literally cause a "headache."

Communicating with a larval involves building onto the net of associations. You must literally wire each new idea to an existing neural connection. Larvals learn almost no new symbol systems after childhood. They simply add on to or translate into symbols closely connected to the imprint. This accounts for the fact that it takes at least one generation for a new idea to be understood.

It is especially important in communicating with larvals to remember that few symbols now exist for post larval processes.

You cannot use butterfly language to communicate with caterpillars.

Circuit 4 language involves domestic-moral and social values. Here we discover that there are great cultural differences.

The basic sperm-egg invitations to orgasm are, of course, global, but the semantics of displacement, inhibition and sublimation become subtle. Indeed, the individuality, intimacy, specificity, inconsistency and volatility of value symbols requires the greatest caution on the part of post-larvals communicating with yokels.

Most larvals live in terror of being seen as sinful or "bad." Constant reassurance is required to maintain the feeling of being socially approved.

In communicating with larvals about sexual, philosophic, or ethical matters, one enters very dangerous terrain. **It is almost impossible to discuss philosophy with yokels.**

Hypocrisy, unconscious motivation, irrational paradox, need for approval and fear-of-shame dominate every discussion of philosophy-religion.

Larvals may be bored by and may tune-out Circuit 3 symbols which do not fit their imprints and conditioned networks. But Circuit 4 moral symbols or behaviors which are sensed as different trigger off responses of passion and even violence. Because of this philosophic sensitivity, yokel humans tend to avoid philosophic discussions.

This phobia can cause painful reactions when a post-larval attempts to discuss exo-psychology with a mundane.

The reasons for the philosophic phobia:

1. Yokels are ignorant about where life came from, where it is going and why. They are thus terrified by their mortality. Each larval has accepted a flimsy philosophy of life-and-death which SHe does not really believe. Thus the irritation and panic when this basic hypocrisy is threatened by a scientific discussion about life-origin and life destination.

"The Lutheran church has always been based on the Bible," explains Phil Beck, Production Manager of a local paint company and the superintendent of the Church's Sunday School. "If you start questioning it, where do you stop? If I have to have that much education to sit down and understand Genesis, then why did God

let Luther put it in the people's language? At what point do I throw the whole mad mess out the door?"

Time magazine

2. Yokels are robot slaves to **DNA**. They blindly labor to perpetuate the species, to breed, to establish domestic arrangements for rearing young and to transmit cultural survival patterns. Any discussion which threatens to expose or question this robothood is extremely painful. The larval cannot tolerate the insight into uneasy areas of uncertainty.

3. Expression and inhibition of sexual behavior is charged with terror, because orgasm and sperm-egg transfer must be domesticated to provide for stable child rearing.

In communicating with larvae one must realize that discussions about life, death, philosophic ultimates, child-rearing, sexuality - are highly individualistic. Reactions to these topics are unpredictable, depending on the intimacy and safety of the situation.

Hypocrisy and violent defensiveness is endemic.

Post-terrestrials, of course, think of little else except what happens after larval imprints are retracted. They are fascinated by communications with their body, their brain, their **DNA**. Post-larvae emit vibrations which sometimes disturb yokels and other times seduce them into a temporary abandonment of philosophic repressions.

Post-terrestrials are usually funny, erotic, relativistic and philosophically provocative. Yokels can unconsciously sense the difference in a post-terrestrial. It is therefore advisable to be accurate and sensitive when interacting with larvae.

One must be careful not to seduce the yokel into betraying too much truth.

During a philosophic discussion with post-terrestrials, larvae will often get carried away in temporary enthusiasm, confess doubts about their cosmologies, admit ethical relativities and even accept post-larval strivings to leave the planet and escape death.

The post-terrestrial is urged to act with delicacy to avoid any overt or implied criticism of yokel values. It must be remembered that, to the larval, astronomy and genetics involve 4th Circuit ethical issues, which threaten loss of moral approval.

Discussing exo-psychology with a yokel is like discussing sexual experiences with a pre-adolescent. She just can't understand the new reality because her neural circuits have not been turned-on. And she may turn you in for philosophic child-molesting.

Sooner or later the larval is going to realize that, after the exciting flight conversation, she is going to remain grounded. At this point the yokel can become passionately moralistic, attacking the post-terrestrial for being elitist, callous to human suffering, anti-human, escapist, or even diabolical.

Immortals must be careful not to wound the sensibilities of mortals.

In particular, one must be diplomatic in discussing the future evolution of the human species. Larval humans naturally believe that evolution has already reached its highest stage with homo sapiens!

Circuit 7 discussions which suggest that evolution is just half-completed, that the human species is fetal and not yet born, that many new superior species will evolve from the present gene pool - are especially wounding to yokel hubris.

Science fiction writers and astronomers have often speculated on the problems of communication between humans and interstellar entities. This problem is no longer academic. It is happening. This book is an example.

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27. The Post-terrestrial Must Also Be Very Cautious in Communicating with Premature Post-larvals.

Some say that the Post-terrestrial Age was inaugurated in 1926 when a group of German visionaries formed the **Verein für Raumschiffahrt** (Association for Space Travel).

The V.f.R. held meetings, published research papers and performed rocket experiments. The group, unaffiliated with government, operated with the free dedication of a medieval alchemical fraternity. It was disbanded after the accession of Hitler. The goal of the V.f.R. was to arrange chemicals in the correct geometric order to produce the escape velocity to leave the planet.

The exo-psychological goals of V.f.R. were coopted by the Nazis, who used the V-1 and V-2 rockets for larval purposes.

At the same time, atomic physicists were seeking the correct arrangements of pure elements to fission the atom. The success of the Fermi alchemical team in Chicago can be seen as another exo-psychological landmark. The fission of the uranium atom provided the energy source to propel the interstellar, post-Einsteinian rockets which the primitive, chemically-fired Newtonian rockets of von Braun were forecasting.

The neurological revolution of the 1960's provided the biological counterpart of the Einsteinian point of view. The principles of exo-psychology were first presented (1963) in a paper mysteriously titled "The Religious Experience - Its Production and Interpretation." [1] This essay, which was widely reprinted and anthologized, accurately predicted that the languages and perspectives of science would provide the theology, ontology, cosmology of the future and systematically laid down the foundations of exo-psychology except that the inevitability of extra-planetary migration was not pointed out.

The co-option of nuclear energy, electronics and rocket-research by the military blocked the interstellar perspective and the subsequent 1960's disillusion with science encouraged the vague maxim "look within."

The resulting fascination with oriental quietism, shamanism, and pop-cult yoga produced a systematic anti-intellectualism, a calculated sucrose stupidity, a bland, smiling self-indulgent floating detachment which is personified as "The Hippy" (Stage 13) and "The Yogi" (Stage 14).

"The Hippy" and the "Yogi-Body Engineer" represent the first two of twelve post-terrestrial stages, **transitional** stages of "wingless butterflies," evolved beyond terrestrial attachments, no longer hooked to mundane symbols. The one-G earth and its survival routines are no longer "real," The Hippie-Zen adept is no longer reflexively reactive to emotional status cues, is unmotivated for dexterous success and unmoved by the virtue-shame systems by which society domesticates its workers; but has not yet evolved to the mastery of the newly activated circuits. The true post-terrestrial is **shame-less**.

The word "Hippy" is a generic term for the first post-larval stages describing those who genetically (Zodiac type), neurologically (imprint) or historically (hedonic/sub-cultures) get trapped in passive-receptive hedonic life styles. Transcendental Masturbation.

The first post Hiroshima generation has produced millions of Zen "Hippies" who have evolved from the mundane but do not realize that they are extra-terrestrial.

The problem is, in part, one of historical linguistics. The only languages, the only symbols provided by primitive psychology for extramundane experiences were "larval religious." The new reality of the Hippy is symbolized by vague, mystical terms.

A communication vacuum develops. On the one hand, The Hippy, Yogi and Tantric realizes that SHe has evolved somehow. On the other hand, the five-brained person, detached from larval symbols, lurches around grasping at any transcendental straw - magic, occultism, chanting, witchcraft, telepathy, guruism, mystical Christianity, Hassidism, experimental evangelism, the endless varieties of oriental charlatanism.

The trap of body-consciousness and sensory consumerism has been well summarized by Federico Fellini:

"People are losing faith in the future. Our [larval] education, unfortunately, molded us for a life that was always tensed towards a series of achievements - school, military service, a career and, as a grand finale, the encounter with the heavenly father. But now that our tomorrows no longer appear in that optimistic perspective, we are left with a feeling of impotence and fear. People who can no longer believe in a "better tomorrow" logically tend to behave with a desperate egotism. They are preoccupied with protecting, brutally if necessary, those little personal gains, one's little body, one's little sensual appetites. To me this is the most dangerous feature of the '70's."

Five-brained persons flopping around sporadically detached from mundane imprints, lacking a vocabulary and a methodology for extra-terrestrial movement, fall back on larval concepts of transcendence. Caterpillar fantasies about what post-larval life will be like.

A warning is in order. Many five-brained Hippies and Yogis are the most vehement opponents of extra-terrestrial

evolution. They use three bland sets of cliches to resist practical plans for interstellar migration:

- **Look within.** Astral travel, passive changing of consciousness will transport us to the promised land.
- **Return to nature.** Back to the paleolithic! Simplify, avoid technology, stalk the wild asparagus, rely on body wisdom, organic purity, sensory pleasure.
- **All is one.** The cosmos is a homogeneous mist of flavorless cotton candy. Exo-psychology and neurogenetics are attacked as unnatural, elitist attempts to differentiate the vanilla-pudding unity of simplistic Hinduism, Buddhism, u.s.w.

Underlying all three of these occultist postures is a revulsion against science, technology, evolution and intellectual competence. Implicit in the occultist theory is the assumption that there is nothing left to learn except to rote-memorize some Hindu chants, to rote-recite some glib theosophical dogmas, to quiet the restless, inquiring mind.

The three stages of the neurosomatic circuit - 13. Hippy, 14. Yogi, 15. Tantric - are body-oriented and involve a deliberate symbol stupidity. It is understandable that the five-brained person reacts against the insectoid-cyborg materialism of larval technology, the scientism that produces plastic consumerism, military-industrialism, assembly-line anomie, and polluted overpopulation. But the rejection of scientific inquiry becomes a know-nothing smugness. Occultists become longhaired rednecks. The evidence from astronomy, bio-chemistry, genetics, nuclear-physics, defines the true frontier of philosophy and religion. Scientific American is more "far out" than any occult magazine, the Periodic Table of Elements more prophetic than the Tarot deck. The nucleus of the atom is a realm more mysterious and omniscient than any theological fantasy. The cosmology of an expanding-universe-riddled-with-Black-Holes more bizarre than the eschatologies of Dante, Homer and Ramayana.

Despite this noble rejection of the artificial, the Hippie-Yogi-Tantric establishment is an entrenched, self-indulgent block

to evolution - a transitional stage preparatory to planetary migration.

We see the limitations of neurosomatic contelligence most clearly in the teachings of don Juan. Castaneda's warrior sorcerers are admirable in their dignified, humorous, disciplined attempts to retract social imprints. Don Juan has worked out an accurate, metaphorical neurologic. He precisely defines the larval-imprint reality-island (**tonal**) and the direct experience of the **nagual**.

But don Juan's philosophy is pessimistic: "There are no survivors on this earth." It fails to evolve to Stage 15 neurosomatic linkage: "And then I was alone," is the bleak conclusion.

The first post-Hiroshima generation was truly a lost generation. Liberated from yokel imprints but with no place to go beyond body geography. The cynicism and malaise of the 1970's is the result of this disillusion.

For these reasons the exo-psychologist must speak with caution in communicating with the members of the "Woodstock" generation. They have imprinted their bodies but are too old and set in their ways (at age 25-35) to receive the neurophysical signals for extra-terrestrial migration.

[1]The energy-languages of physics, electronics, astronomy, mathematics are post-larval but their relevance to psychology is just now being recognized.

THE EVOLUTION, STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM

29. Think of This Book - Exo- psychology - As an Astro- neurological Text 30.

The past few pages of this transmission have whirled us through several billion years of evolution, introduced us to Higher Intelligence, explained our role as Paleozoic plants, pulled us through larval stages of mammalian body construction, described the robotry of symbol-conditioning, provided the key to sexual male-faction, instructed us in the use of the poly-phase neuroscope (equipped with life-long, re-imprint film), and given us adequate cues to allow us to attain biological immortality and time-dilation.

It is possible that we have already in this introduction transmitted more extra-terrestrial information than is contained in all of the books which have previously been written.

"But maybe I'm revealing things I shouldn't, don Juan."

"It doesn't matter what one reveals or what one keeps to oneself," he said. "Everything we do, everything we are rests on our personal power. If we have enough of it, one word uttered to us might be sufficient to change the course of our lives. But if we don't have enough personal power, the most magnificent piece of wisdom can be revealed to us and that revelation won't make a damn bit of difference."

This book is not for Every Body. The human species is now at a point of genetic fission. Assume that about ninety-three percent of the species is going to adapt to life on the planet. Ecology is the seductive dinosaur science that will lead most of the post-human species to conform to terrestrial conditions, become reasonably comfortable, passive, robot-conditioned cyborg insectoids directed by centralized (ABC, NBC, CIA, MAO, CKB) broadcasting systems. For terrestrial readers this manual outlines the neurological steps necessary to adapt harmoniously to hedonic, five-brained cyborg existence.

This transmission flashes a different signal for the seven percent who we assume are **DNA**-designed to attain biological immortality, leave the womb-planet, become galactic citizens and fuse with superior interstellar entities.

This manual is not designed for conventional author-reader games. It is a signal for mutation. A test of intelligence. A scan for personal power.

The pan-spermic U.F.O.s landed three billion years ago and produced the signal, an English translation of which you now hold in your hand:

S.M.I².L.E.