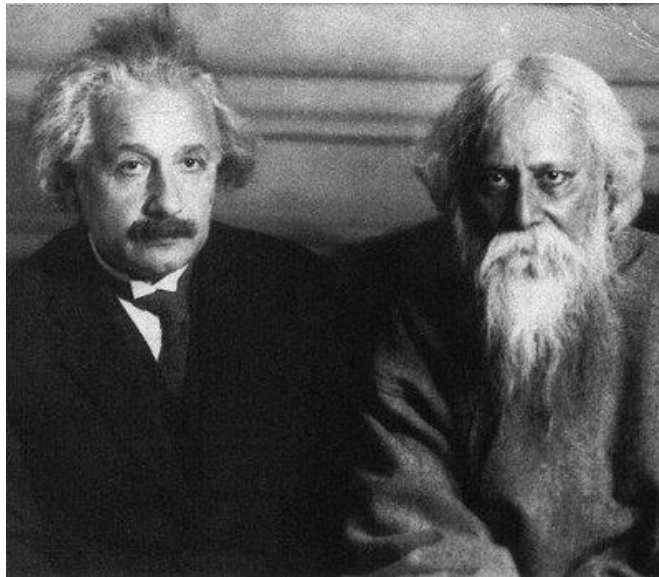


International Conference
Education, Communication, & Lifelong Learning:
Thoughts and Ideas of
Grundtvig, Tagore, and Freire
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SCIENCE ETHICS AESTHETICS:
THREE MODES OF SPIRITUAL KNOWING

MARILYN WILHELM

Poems and Paintings by Pupils of Wilhelm Scholê International



For
My Noble Friend
Kapila Vatsyayan
With Unbounded Admiration and Gratitude

Science Ethics Aesthetics: ***Three Modes of Spiritual Knowing***

***“The highest education is that which does not merely give us information,
but makes our life in harmony with all existence.”***

Rabindranath Tagore (1861 – 1941)

Revered Bengali Polymath. Tagore reshaped Bengali Literature and Music as well as Indian Art
with contextual modernism.

1913 Nobel Prize in Literature.

The Supreme Questions: Can ethics and values be taught without dogma? Are there objective spiritual values, whether intellectual, ethical, or aesthetic? Are there Universal Principles that hold through time? If so, how do we apprehend them? How do we go about transmitting them?

In ancient times, science, ethics, and aesthetics were not separated, they were inextricably intertwined. **Einstein** articulated the Traditional indivisible view of science, ethics and aesthetics when he said, ***“The first test is beauty,”*** meaning integrity: *every part supports and sustains every other part and the small is equally significant as the great.* Integrity was the “masterpiece standard” of all Traditional cultures. All Universal values, *the invariants of civilized life*, hinge on the ability to see unity in diversity, *the integrity of things.*

Rabindranath Tagore expressed this fundamental Traditional ideal poetically:

***“Beauty is the idea of perfect harmony
which is in the universal being;
truth the perfect comprehension of the universal mind.”***

The basic assumption from which our ancestors started was the concept of Oneness outside of which nothing exists. They called this Oneness, God. *The Oneness of God* remains a basic tenet of all religions to this day.

Our ancient ancestors’ Universal transcendent dream of the sacredness of all life, of kinship with their fellow beings and the Cosmos is enshrined in the word *religion*, (re-ligio), meaning *again link back to the original Oneness.*

Thus Unity/Integrity (a paired concept), the connecting strand of meaning woven into every word, *shaped the consciousness and conscience of the people.*

In ancient times, science, faith, and philosophy were not separated. Science searched for understanding in terms of *order/beauty* in the Universe, while philosophy searched for understanding in terms of *meaning.* Science was taken as a basis, source, and prototype of all possible forms of ethics and values.

Theologia (theology), a word coined by **Plato** (c. 427 – 347 B.C.E.) Revered Greek Philosopher; Great Student of **Socrates**, meant the Philosophic questioning of the Laws of the Universe which leads to a fuller understanding of *the Oneness of God.*

Albert Einstein described a physicist in the full and original meaning of the word when he said, ***“I want to know God’s thoughts, the rest are details.”*** And he clarified his hopes and those of our ancestors in his belief that the development of Science was a source of enrichment to Spiritual Values. ***“Cosmic religionness,”*** wrote **Einstein**, ***“is the strongest and most noble driving force of Scientific research.”***

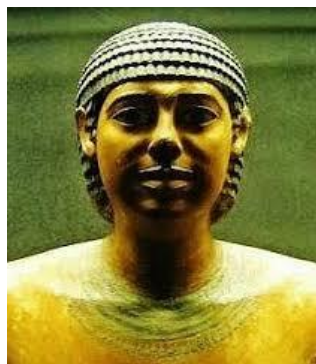
“The moral element is the basis of everything,” wrote the Revered Russian Novelist **Fyodor Mikhailovich Dostoevsky** (1821 – 1881). Our ancestors agreed. In earlier times conscience functioned like the electro-magnetic field, *every where*, because the Moral Law is the same in all contexts. Therefore, as **Abraham Lincoln** pointed out, ***“Right and wrong are not dependent on time or place.”*** Thus conscience, in the oldest languages, ordered all forms of activity: *intellectual, ethical, and aesthetic.*

Traces of this ancient wisdom are embodied in the phrases “that’s the *right* answer,” in mathematics; “that looks *right* to me,” in aesthetic matters; and, “that was the *right* thing to do,” in ethical situations. Light radiates further when one recalls the original definition of *right* means “complete,” “fully realized,” *for unity has been achieved. Right* also means “straight,” indicating that *the mean between two extremes has been reached, that is, harmony between opposites has been achieved.* In Traditional terms all definitions for *right* describe ***The Moral Law in action.***

Which brings us to one of the landmarks in the cultural history of our Cosmopolis, the Universal ethical code, ***The Golden Rule***, the invariant of civilized life and the base of all religions: ***The Moral Law in action.***

In 2880 B.C.E., in the northeast corner of Africa, **Ptah-hotep**, the Egyptian Philosopher and Advisor to the Pharaoh, wrote:

“The power of being in accordance with the Moral Law is that it endures, so that one may say ‘it is a possession of my ancestors which I have inherited.’ ”



Ptah-hotep (c. 2880 B.C.E.) Revered Egyptian Sage. Author of **Instructions of Ptah-hotep.**

*“A rainbow of voices” proclaim The Moral Law / The Golden Rule
the invariant of civilized life, the ethical cornerstone of Culture, the base of all Religions,
Wisdom we hold in Common.*

THE MORAL LAW / THE GOLDEN RULE

**“The power of being in accordance with the Moral Law
is that it endures so that one may say
*‘it is a possession of my ancestors which I have inherited.’”***

Ptah-hotep 2880 B.C.E. Egypt

Do not do unto others all that which is not well for oneself.

Zoroaster 6th century B.C.E. Persia

Hurt not others with that which pains thyself.

Buddha 6th century B.C.E. India

Do not do unto others what you do not want others to do unto you.

Confucius 6th century B.C.E. China

Do not do unto others what you would not want others to do unto you.

Plato 5th century B.C.E. Greece

Do not to others which if done to thee would cause thee pain.

Mahābhārata 3rd century B.C.E. India

Do not do unto others what thou wouldst not they should do unto thee.

Rabbi Hillel 1st century B.C.E. Babylon

Do unto others as you would have others do unto you.

Jesus Christ 1st century C.E. Judea

None of you truly have the faith if you do not desire for your brother
that which you desire for yourself.

Muhammad 6th century C.E. Mecca

Lay not on any soul a load which ye would not wish to be laid upon you
and desire not for anyone the things you would not desire for yourself.

Bahá'u'lláh 19th century C.E. Iran

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The Universal First Principle

“What is more cosmopolitan than the Eternal?”

Charles Baudelaire (1821 – 1867)

Renowned French Poet whose influence on all subsequent poetry is immeasurable.

The First Principle of all our ancestors was the eternal principle of Unity which transcends all opposites. The Egyptian term for this First Principle is *Atum*; Chinese: *Tao*; Hindu: *Brahman*; Persian: *Vahdat e Vojoood*; Greek: *Logos*; Hebrew: *Elohim*; Arabic: *Al-Kalimah*; Lakota: *Wakan-Tanka*... *All languages have a word for this core concept.* This premise forms the general orientation with the deep meanings of our original Spiritual heritage: the fundamental starting point of *the Wisdom we all hold in Common*. Thus *Atum/Tao/Brahman/Vahdat e Vojoood/Logos/Elohim/Al-Kalimah/Wakan-Tanka* provides a Global conceptual environment in which Unity is attained and diversity maintained.

The underlying Common Principle embodied in Language is the Principle of Unity which transcends all opposites *the Ideal of all great Cultures: the fundamental starting point of Wisdom we hold in Common.*

Universal First Principle

The Harmony Between Opposites

Wrote Rumi

Is The Principle Of The Universe

Atum Said The Egyptians

Tao Said The Chinese

Brahman Said The Hindus

Vahdat e Vojoood Said The Persians

Logos Said The Greeks

Elohim Said The Hebrews

Al-Kalimah Said The Arabs

Wakan-Tanka Said The Lakota



Primer Principio Universal

La Armonía Entre Opuestos

Escribió Rumi

Es El Principio Del Universo

Atum Dijeron Los Egipcios

Tao Dijeron Los Chinos

Brahman Dijeron Los Hindues

Vahdat e Vojoood Dijeron Los Persas

Logos Dijeron Los Griegos

Elohim Dijeron Los Hebreos

Al-Kalimah Dijeron Los Arabes

Wakan-Tanka Dijeron Los Lakota

Nathaniel Hondrus 8 Yrs. Heather Mitchel 8 Yrs. Freddy Tuggle 6 Yrs.

Rumi by Ilsa Dohmen 7 Yrs.

Jalaluddin Rumi (1207 – 1273) Beloved Persian Sufi Poet.

“Truth does not lie between two extremes, it embraces them both.”

“La Verdad no se encuentra entre dos extremos, los abraza a ambos.”

Johann Wolfgang von Goethe (1749 – 1832) Beloved German Polymath.

“Truth is one, sages call it by many names.”

“La Verdad es una, los sabios la llaman por muchos nombres.”

Vedas Sacred Literature of India (1000 B.C.E.)

Perspective is everything. In the beginning there was no “problem” between *reality* and *idealism* because the conceptual framework of language did not permit one to see anything as separate or isolated from the whole, for words *with* a reference to Unity are always *in-context*. ***Return the reference to Unity to words and we end the crisis in meaning.***

Speakers of Language *without* a reference to Unity perceive the world differently; for words *without* a reference to Unity are *out-of-context*, are abstractions, are meaningless and therefore a mental handicap. **Remove Unity** from words and we have **analysis without synthesis**. For words *without* a reference to Unity form a barrier to the dynamic interaction of the brain's two hemispheres. The right side of the brain, *the feeling intellect*, the source of emotion that comes from realization, from seeing the "big picture," is excluded; *the meaning of it all is lost*. Language itself has been destroyed and with *that* the ability to reason and think beyond one's own self-interest is gone. Mexican Noble Laureate **Octavio Paz** (1914 – 1998) stated it well: ***"Language is no longer the key to the world; it is a mere mouthing of empty, mad words."***

Fortunately, Albert Einstein was not encaged in words denoting separateness, for Einstein had dyslexia. Isn't it interesting that **Einstein** declared: ***"I never thought in words I only thought in images, then struggled to clothe the images in words."***

It is a supreme irony that the revolutionary ideas of modern Science, from Physics, to Biology, to Ecology, to Neuroscience, are "revolutionary" in the definitive sense of making a complete circle for Scientists are rediscovering the same basic Truth from which our ancestors started: *the Universe and every one and every thing in it are interrelated, interdependent, indivisibly One.*

Turning to Physics: Analyzing the development of Physics in retrospect one is struck by the power of Language in the matter of Scientific advancement. Language controls perspective; it is a theory or philosophic way of perceiving. And, as **Einstein** pointed out, ***"It is the theory which decides what can be observed."*** In the process Language creates Tradition and defines the formulation of questions we want to answer.

Language and Mythology are twin mirrors, forever reflecting the full and original meaning of words. For *myths personate Principles*, the Atum//Tao/Brahman/Vahdat e Vojood/Logos/Elohim/Al-Kalimah/Wakan-Tanka Principle: *polarity, interaction, and unity*, the core element of the paradoxical character of reality and the truth of paired concepts, *for all creation is copulative.*

Complementarity

Wondering Scientists Asked
 Is It Particles Or Is It waves
 Seeing The Complimentary Unity
 Of Particles And Waves
 Niels Bohr Answered
 Contraria Sunt Complementa
 Opposites Are Complimentary
 There Is No Contradiction
 Each Is A Different Aspect
 Of The Same Thing



Courtland Congo 8 Yrs. Samuel Oren-Palmer 8 Yrs. Jay Neger 8 Yrs. Daniel Nelson 8 Yrs.

Niels Bohr's Coat-of-Arms by Jason Hughes 11 Yrs.

Isn't it interesting that **Niels Bohr** (1885 – 1962), Danish Pioneer of Quantum Physics, chose for his coat-of-arms the Tao (☯); **Erwin Schrödinger** (1887 – 1961), Austrian Theoretical Physicist and Pioneer in Quantum Mechanics, chose for the cover of his book *My View of the World*, the Eye of Horus (👁); **J. Robert Oppenheimer** (1904 – 1967), the American Physicist, was constantly quoting from the *Upanishads* and the *Bhagavad Gita*; **Albert Einstein** and his close friends formed the *Olympia Academy* for the purpose of studying and discussing together the great ideas in Classic Literature, Philosophy, and Science.

Einstein's theories mobilize language to be the great unifier by guiding one to perceive the *Harmony between opposites*, the highest form of Unity, the *First Principle of the Universe*, in Physics: *Space/Time, Mass/Energy, Cause/Effect, Particle/Wave* --- which in turn guides one to see the paradoxical character of reality in *Man/Nature, We/Me, and Order/Beauty*, the underlying meaning of Harmony embodied in the word *Cosmos*, for **Pythagoras** (c. 582 – 497 B.C.E.), Greek Philosopher/Mathematician/Astronomer perceived the Universe as *One Song*.

Einstein's theories, returned to their metaphysical center, are not mere Scientific hypotheses, but a complete Philosophy, one in which all separateness is removed through the integration of all aspects of life into a sanctioned Unity outside of which nothing exists.

Which brings to mind *Exodus* and two references concerning **Elohim** ... "*the Eternal not our selves which is in us and all around us;*" **Elohim** is also referred to as *topos*, space. Intuition tells me that this may be the illuminating source which formed Einstein's theory that *there is no space empty of energy*, that is, *without a gravitational field*. Further, the Hebrew word **Elohim, God**, is composed of a feminine singular with a male plural, denoting the uniting of the male and female principles. Thus first century Christian Theologian **St. Paul** declares: "*In God there is neither male nor female.*"

The Birth Of Conscience

Shaping And Reshaping
 Eternal Conversation
 Of The Eternal Mind
 Wrote Goethe
 Is It Right Or Wrong
 Beautiful Or Ugly
 True Or False
 Shiva And Shakti
 Resolve These Questions
 In The Space Of The Heart
 Where The Marriage
 Of Facts And Feelings Takes Place
 The Result Of This Marriage Is
 The Birth Of Conscience



Raagen Price 11 Yrs. Jasmine Moshiri 9 Yrs. Noni Morrow 8 Yrs.

Shiva And Shakti by McKenna Jordan 8 Yrs.

In India, *Lord Shiva*, the Dancer whose dance is the Universe, is the symbol of the balanced union of opposites, *Shiva/Shakti*, the Undivided Unity of the male and female principles. In China, the Divine Biunity of *Elohim* is expressed as *Yin/Yang*, in Egypt as *Shu/Tefnut*. Geographical variations of “*the coming together of opposites to form a two-sided unity,*” (Heraclitus), abound the world over. One is entranced by the different illuminating cultural images that bring clarity and breadth of understanding to the paradoxical character of reality and *turn antithesis into synthesis*.

Tao: The Way

One Part Yin

One Part Yang

Make Tao

Said Lao-Zi

Balanced Thinking Means

Masculine And Feminine

Are United

Agreeing Like Fishes And Water

Jasmine Moshiri 9 Yrs.



Tao by Layla Altman 10 Yrs.

Shu/Tefnut: Divine Principles

The Ancient Egyptians Believed

Shu/Tefnut

The Two-Fold Personification

Of Atum

The Complete One

Embrace And Bring Into Being

Everything That Exists

Layla Altman 8 Yrs.



Shu/Tefnut by Joel Peterson 10 Yrs.

The Star Of David

Two Equilateral Triangles

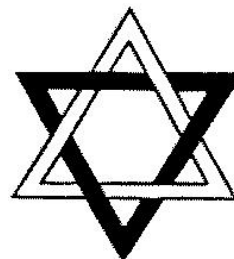
Come Together

To Make One Star

The Hebrew Symbol Of Unity

Of The Male And Female Principles

Isaiah Alexander Washington 8 Yrs.



Harmony

Ares
God Of War
Aphrodite
Goddess Of Love
Embrace And Create
Harmony
Symbol Of Eternal Opposites
Unified



Noni Morrow 8 Yrs. Annie Gouy 7 Yrs. Beau Pope 8 Yrs.

Illustration from **Francoise Gilot's *Ares and Aphrodite*** by Grant Van Der Jagt 9 Yrs.

Jacob Bronowski's beautiful statement concerning Einstein's childlike genius bears repeating: ***"When you ask simple questions and you get simple answers, you hear God thinking."*** Seen in this light Physics becomes a key to understanding the Architecture of the Spiritual/Physical world. (**Jacob Bronowski**, 1908 – 1977 Polish - British Mathematician, Historian of Science, and Author and Presenter of the Remarkable BBC Television Series **The Ascent of Man.**)

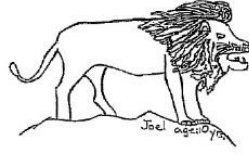
Turning to Charles Darwin (1809 – 1882) English Naturalist/Geologist: Darwin's ***Theory of Evolution*** was published in his 1859 book **On the Origin of Species**. We see that his theory establishes a coherent social bond among all species. For the discovery that the genetic code for all species is written with the same alphabet, but the message is unique for each, not only makes human kinship a biological reality, it verifies and clarifies the unanimous hope and belief of our ancestors that *all life is related*. The biological reality that ***the Cosmos is a kinship system*** widens the family circle and extends our Moral obligation of kinship to include every one and every thing in the world.

As **Plato** (c. 427 – 347 B.C.E.) Revered Greek Philosopher; Great Student of **Socrates** wrote (**Meno 81 c d**): ***"and since all Nature is congeneric there is no reason why we should not, by remembering but one single thing, which is what we call learning, discover all the others... since it would seem, research and learning are wholly recollection."***

Thus the genetic code, the scientific explanation of family, transforms the scope of Science into a cultural force, clarifying, expanding, and strengthening the Universal Tradition of family: *the interdependence of all the members of the family upon each other for the common good* --- which is indispensable for our survival. The question is: how do we remain consciously aware of this fact?

Turning to Mathematics: ***"Mathematics,"*** wrote **Charles Darwin**, ***"seems to endow one with something like a new sense."***

Mathematics and Science should be considered part of the Humanities because they provide Intellectual *and* Spiritual nourishment by expanding and deepening conscious awareness that the Universe and every one and every thing in it are interrelated, interdependent, and indivisibly One.



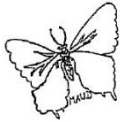
The Mystery Of Beauty

The Mystery Of Beauty
Said The Ancient Egyptians
Is An Expression Of
Divine Order



Proportion
Belongs To
Geometry And Harmony
The Realm Of Unity

Measurement
Belongs To
The Object And Arithmetic
The Realm Of Diversity



Beauty
Said The Greek Pythagoras
En To Pan
Is Unity In Diversity

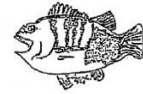
El Misterio De La Belleza

El Misterio De La Belleza
Dijeron Los Antiguos Egipcios
Es Una Expresión De
Orden Divino

Proporción
Pertenece A
Geometría Y Armonía
El Reino De La Unidad

Medida
Pertenece Al
Objeto Y A La Aritmetica
El Reino De La Diversidad


Belleza
Dijo El Griego Pitágoras
En To Pan
Es Unidad En Diversidad



Joseph Krahula 8 Yrs. Raagen Price 11 Yrs. Sean Long 8 Yrs. McKenna Jordan 9 Yrs.
Andres Bernal 7 Yrs. Megan Long 6 Yrs.

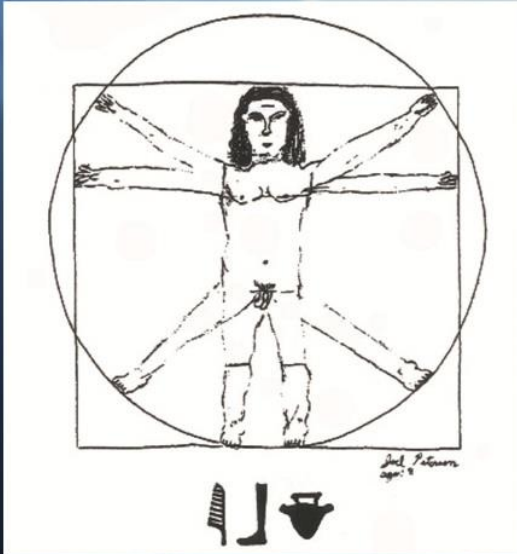
Illustrations by Maude Zenide 9 Yrs. Joel Peterson 10 Yrs.

Our vitally intuitive ancestors were keen observers of Nature and their most profound and far-reaching discovery was made in their observation of phenomena that are most diverse from a qualitative view, but are identical in their Mathematical properties.

This discovery was what the Egyptians called **IB** (), and what the Greeks called **Logos**, the “**Divine Proportion**,” the “**one true proportion**.” Since the time of the Renaissance the West has referred to the Logos Proportion as Φ “phi” or the “**Golden Number**.”

The **Sanskrit** name for the Logos Proportion is *Suvarnaanupata*; **Chinese**, *Huan Jin Ge Lu*; **Hebrew**, *Sh'veel Hazahav*; **Persian**, *Nesbateh Tallaaai*; **Arabic**, *Al-nasb Al-dhahabi*. All languages have a name for this Mathematical Law.

The Golden Number, Φ phi, is the order of growth for all plants and animals, including the human animal. The concrete evidence provided by the invariability of the relative proportion between the various elements of the body of all animals, including the human animal the (co-efficient changing but the formula remaining the same), led to the transforming insight of a *natural norm*, that is, “*the perfect harmony between all parts.*”



THE FAMILY OF FACTS

MATHEMATICS
IS A SPIRITUAL EXPERIENCE
BECAUSE IT SHOWS THE UNITY
THAT MAKES US ALL ONE FAMILY

JOEL PETERSON	10 YRS.	GABOR RONASZESKI	7 YRS.
STEPHEN COOPER	10 YRS.	JAY NEGER	9 YRS.

THE GOLDEN NUMBER

FORM MAKES THE WORLD RATIONAL
THE GOLDEN NUMBER
REVEALS THE ORDER-BEAUTY
OF ALL PLANTS AND ANIMALS
INCLUDING THE HUMAN ANIMAL

LAYLA ALTMAN	7 YRS.	SEAN LONG	8 YRS.
		NONIE MORROW	7 YRS.

Wilhelm Schol  International
Developing Global Renaissance Human Beings

Learning the Golden Number includes studying **Leonardo da Vinci’s *Notebooks*** and the chapter ***Human Proportions.*** (**Leonardo da Vinci** 1452 – 1519 Revered Italian Renaissance Polymath) Our students test Leonardo’s observations by measuring themselves and experiencing in themselves *the law of Unity and Integrity.*

They are delighted and enthralled as they learn that their foot, *their co-efficient*, is as long as their whole head, that the space between the elbow and the wrist is the same as their foot, and that their ear is as long as their nose and so on.

Thus the dimensions of our own body serve as a constant and immediate intuitive source of reference in sizing-up the fitness of our own work or anyone else’s work and why one has a sublime sense of kinship, of ultimate Unity with the Universe and all of Nature.

In the *Upanishads* it is stated that it is impossible to learn elsewhere what one is incapable of learning within one's own body, both on a Spiritual as well as a Physical plane. An echoing thought comes from the Chinese declaration: "**Where else can you seek wisdom since it is not outside your body.**" Traces of these ideas are found in **William Blake's** statement: "**Knowledge of Ideal Beauty is not to be Acquired, It is Born with Us.**" **William Blake** (1757 – 1827) English Poet/Painter/Philosopher/Mystic. A central figure in the history of art and literature of the Romantic Age

The question is: how can we remain consciously aware of the Unity/Integrity of the Universe and every one and every thing in it? What is the prescription to cultivate the Moral sense? **Benjamin Lee Whorf** (1897 – 1941), American Linguist, would reply by saying, "**A change in language can transform our appreciation of the Cosmos.**"

We think in language, or more precisely, *language does the thinking for us*, controlling the way we see, think, feel, and respond. Therefore, "**when fundamental concepts have to be changed, language is the path for progress.**" (**Kathleen Hall Jamieson**, American Professor of Communication/Director of the Annenberg Public Policy Center University of Pennsylvania.)

One could say that Science *requires* that we return to our Roots and re-orient ourselves to *basic reality* by re-establishing the reference to Unity to words, which was originally implicit or explicit in every language: *a lost perspective now verified and clarified by Science*. Then we will perceive the harmony of Ancient Wisdom and Modern Science, and discover the Spiritual hidden beneath the Scientific for "**in a mutual embrace**" as **James Clerk Maxwell** (1831 – 1879) Scottish Mathematical Physicist would say, reality and idealism will have become one again. **Socrates** (c. 470 – 399 B.C.E.) Imperishable Greek Philosopher; Teacher of **Plato** wisely remarked, "**The beginning of wisdom is the definition of terms.**"

Isn't it interesting that the convictions of Science and Religion, *unpredictably and fortuitously*, coincide. One could say that the reconciliation of Science and Religion, as well as the reconciliation of religions, *require* that we return to our Roots and reclaim the original paradigm of humankind, *the language of Integrity*, wherein Unity is the connecting strand of meaning woven into every word. **Confucius** (551 - 479 B.C.E) Revered Chinese Sage, Teacher of Ten Thousand Generations would counsel, "**What is needed is to rectify names, when names are not correct language is not in accordance with the truth of things.**"

By returning to our Roots Language regains its Spiritual strength, for the linguistic barriers to Oneness and to the paradoxical character of reality are removed: *we see the binary structure*, "the two-fold aspect of a one-fold world," *everywhere* --- beginning with our selves, for each individual, that *indivisible dual being*, is comprised of 50% DNA from the mother and 50% DNA from the father to form "*a two-sided unity.*" The Eternal Quest is to bring the opposite sides of our being into equilibrium. Isn't it interesting that Webster's dictionary defines **disease** as *a condition in which bodily health is im-paired.*

Further, by returning to our Roots, Language will possess proper Scientific credentials and the power to advance Science by expanding and deepening our awareness of *Oneness* and *the paradoxical character of reality.*

The Indwelling Logos

AN INDIVIDUAL
IS AN INDIVISIBLE DUAL BEING
REASON
THE INDWELLING LOGOS
BALANCES
FACTS WITH FEELINGS
FEELINGS WITH FACTS
TO CREATE
A TWO –SIDE UNITY

LAYLA ALTMAN 10 YRS.



The Paradox

EVERY ONE
IS AN INDIVIDUAL
A CREATIVE BEING ABLE
TO HOLD OPPOSITES
IN EQUILIBRIUM

DANIEL NELSON 11 YRS. - PATRICK McMAHON 13 YRS.
BEAU POPE 10 YRS. - JOEL PETERSON 12 YRS.

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Invariantentheorie: Albert's Absolute

“Science is the most remarkable agency of change, not only in the material world, but also with the spiritual one; so powerful indeed that it is revolutionary.”

George Sarton (1884 -1956)

Belgian-born American Scholar founded **Isis**, *An International Review Devoted to the History of Science and Its Cultural Influences*, in Belgium in 1912. The **History of Science Society** was founded in 1924 by **Sarton** to secure the future of **Isis**.

A perfect example of this would be **Einstein's Invariantentheorie**, which implies that the view of the world is always the view of the given observer; *Einstein's theory provides the necessary transformation rules to reconcile one observer's experience with another's*.

The founding tenet of **Einstein's Invariantentheorie**, *renamed by others the theory of relativity*, is that the Laws of Physics must be the *same* for all observers, regardless of how they move or where they are located. One could say that **Einstein's Invariantentheorie** is analogous to the Moral Law which is the *same* in all contexts.

A creative mis-understanding of **Einstein's *Invariantentheorie*** led to the theory of moral relativism *expressing the exact opposite* of Traditional thought and today's scientific theories. The philosophic mis-reading of Einstein's most important points is *neither morally or intellectually correct*. For Einstein's real world of relations has been transformed into a world of relativism where members lack contact and dynamic reaction upon one another. Each person sees oneself as the center of one's own universe. Therefore, all values are relative. What is right for one maybe wrong for another, and vice-versa. One is again struck by the power of Language to disorient the individual and society from the Real and Unchanging: "**All is One.**"

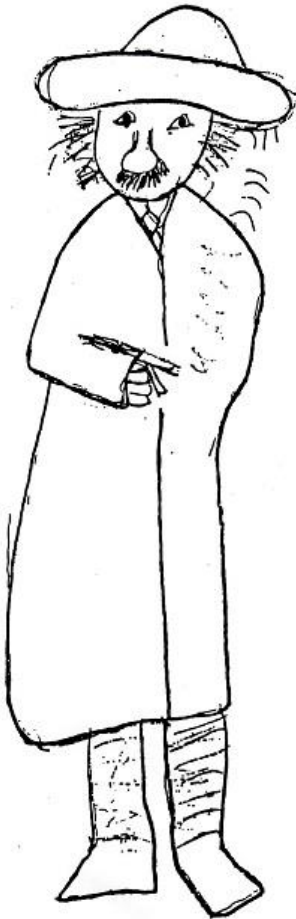
INVARIANTENTHEORIE: ALBERT'S ABSOLUTE

EINSTEIN WONDERED
 HOW IS MOTION TO BE MEASURED
 WITH CLEAR INTUITION
 EINSTEIN REALIZED
 THE ANSWER DEPENDED
 ON THE MEASUREMENT OF TIME

A COURAGEOUS LOVE OF TRUTH
 PROVOKED FEARLESS QUESTIONS
 DO I SEE CLEARLY
 EINSTEIN ASKED HIMSELF
 THE RELATION THE INNER CONNECTION BETWEEN
 THE MEASUREMENT OF TIME AND MOVEMENT

SUDDENLY
 AFTER 10 YEARS OF THOUGHT
 THE ANSWER CAME TO HIM
 LIKE A THUNDERBOLT
 THE SPEED OF LIGHT IS AN ABSOLUTE
 A FUNDAMENTAL *INVARIANT*
 INDEPENDENT OF THE MOTION OF THE OBSERVER

COLLEEN CORCORAN 7 YRS. KRIS KERFOOT 9 YRS.
 COLLIN BUTCHER 7 YRS. NILS SMITH 8 YRS.



Colleen Corcoran age 7

THE ABSOLUTE AND THE RELATIVE

SPACE AND TIME ARE RELATIVE
 TO THE POINT OF VIEW OF THE OBSERVER
 WROTE EINSTEIN
 BUT THE SPEED OF LIGHT IS THE SAME
 FROM ALL POINTS OF VIEW
 REGARDLESS
 OF THE FRAME OF REFERENCE
 OF THE OBSERVER
 THEN HE ADDED ANOTHER WONDROUS IDEA
 WHAT WE OBSERVE
 DEPENDS ON OUR FRAME OF REFERENCE
 WE CAN DETECT THE MOTION
 OF ONE OBSERVER
 SAID EINSTEIN
 ONLY WITH RESPECT TO ANOTHER

McKENNA JORDAN 8 YRS. ZACHARY MATULA 10 YRS.
 JOEL PETERSON 9 YRS.



Johann Wolfgang von Goethe (1749 – 1832)
Revered German Poet/Novelist/Diplomat/Playwright/Polymath.

Creativity

We See
Only That Which We Know
Wrote Goethe
A Creative Misunderstanding
Translated Invariantentheorie
Into A Concept Of **No Absolute**
A Dream Of Universal Relatedness
Became A Nightmare of Unrelatedness
Where Every One Is An Island Unto Oneself
The Meaning And Form Of
The Theory Of Relativity
Reflected The Values Of Society

Alexander Mayta 11 Yrs. Grant Van Der Jagt 9 Yrs. Benjamin Morrison 9 Yrs.

Johann Wolfgang von Goethe by Eric Lindsay 8 Yrs.

This perverse mis-reading of **Einstein's Invariantentheorie** has profound ethical consequences, for it has been shaping our mis-understanding, our consciousness, our conscience.

If all values are relative, then whose values can be taught? Confucius would counsel: ***"The way to ruin a human being or destroy a nation is first take away the sense of right and wrong."*** Disoriented confusion led to the *unprecedented removal of teaching ethics in the schools---* including the Law Schools at the Universities---*leaving teachers and students with no frame of reference, no common orientation for right and wrong.* Now a teacher is no longer responsible for Spiritual guidance of students, and with this change the Traditional concept of a true education disappears: ***"The true test of a school is the character that emerges from it."*** (**Frederick Mayer** 1921 – 2006, Renowned German-born Philosopher and Education Scientist. Author of 60 Books on Education, Creativity, and Humanism.)

A further extension of the profound mis-interpretation of **Einstein's Invariantentheorie** has come with the recent precedent of transforming *Conscience* (which has no plural in **any** language) into *consciences*. *"Ideas have consequences,"* said Supreme Russian Psychologist/Novelist **Dostoevsky** (1821 -1881). What are the consequences of this distortion?

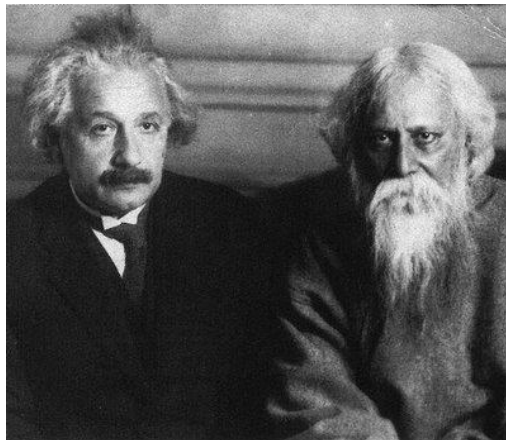
The word *consciences* sets forth a fresh deterioration of the moral sense by its negation of the Universal Traditional belief in “*the spark of the divine within.*” In the process, the “*Voice of conscience*” disintegrates into the “*voice of self-interest*” *within.*

It is like déjà vu all over again. One is reminded of **Plato** and the word *phronésis*, meaning “*moral consciousness,*” what **Socrates** described as the highest form of knowledge, *the knowledge of right and wrong.* *Phronésis, Moral consciousness,* was transformed by **Aristotle** (384 – 322 B.C.E.) Greek Philosopher into *phrónesis*, meaning *prudence*, what is practical. Therefore, all Values hinge on “*what the prudent man would do,*” that is, on “*the voice of self-interest.*” The renowned Swiss Psychiatrist/Psychotherapist **Carl Gustav Jung’s** (1875 – 1961) psychiatric description of “*intellectual barbarians*” and “*technological savages*” come to mind.

When Modern Science, that “fortress of reality,” regains its Spiritual strength it will expand the significance of Unity/Integrity, transforming the Universal Moral Tradition of **The Golden Rule** into a pattern harmonious and consistent, embracing and absorbing the Philosophic and the Scientific: all definitions of *right* being ***The Moral Law in action.***

Let us never forget that we had to wait for **Albert Einstein** German-born American Theoretical Physicist the Scientist who “*could not think in words,*” to re-pair our thinking, to re-connect us to First Principles, and to re-mind us:

***“A human being is a part of the whole, called by us the Universe....
Only a life lived for others is worthwhile.”***



Albert Einstein (1879 – 1955) and **Rabindranath Tagore** (1861 – 1941)

Together **Tagore** Revered Bengali Polymath and **Einstein** form a synthesis of the Philosophic and the Scientific, returning us to the highest Spiritual vision from which our ancestors started:

a pure clear vision of the Oneness of the Universe outside of which nothing exists.


Einstein counseled the world: “***A new type of thinking is essential if humankind is to survive.***”

Let this International Conference **on Education, Communication, & Lifelong Learning: Thoughts and Ideas of Grundtvig, Tagore, and Freire** serve as inspiration and hope for the future by reminding us of our rightful Cultural Heritage: *the holistic Tradition of Humanity* wherein Science, Ethics, and Aesthetics meet and merge to become three modes of Spiritual knowing and the base of the highest Education **“which does not merely give us information but puts our lives in harmony with all existence.”**

In the process Education will help bring about the *“concordance of civilizations”* and the development of Global renaissance human beings, Spiritual citizens of our Cosmopolis, those individuals of Integrity who are awake to **Wisdom we hold in Common.**

Marilyn Wilhelm
January 12 – 13, 2024
Kolkata, India



Chinese **Jha** 家 means **home** and **family** as well as **Universe**. Thus Wilhelm Scholê International's Logo includes the entire Cosmos: *sky earth plants animals humankind; grandparents parents children; past present and future.* **“All under Heaven one family.”** Because the reality of our **Oneness** is a *Spiritual Law* a *Scientific fact* and the key to our survival the Chinese **Jha** 家 is centered in the Sun of the Wilhelm Logo .

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"how to think...not what to think"

“A rainbow of voices” proclaim **The Moral Law / The Golden Rule**
the invariant of civilized life, the ethical cornerstone of Culture, the base of all Religions,
Wisdom we hold in Common.

THE MORAL LAW / THE GOLDEN RULE

**“The power of being in accordance with the Moral Law
is that it endures so that one may say
*‘it is a possession of my ancestors which I have inherited.’”***

Ptah-hotep 2880 B.C.E. Egypt

Do not do unto others all that which is not well for oneself.

Zoroaster 6th century B.C.E. Persia

Hurt not others with that which pains thyself.

Buddha 6th century B.C.E. India

Do not do unto others what you do not want others to do unto you.

Confucius 6th century B.C.E. China

Do not do unto others what you would not want others to do unto you.

Plato 5th century B.C.E. Greece

Do not to others which if done to thee would cause thee pain.

Mahābhārata 3rd century B.C.E. India

Do not do unto others what thou wouldst not they should do unto thee.

Rabbi Hillel 1st century B.C.E. Babylon

Do unto others as you would have others do unto you.

Jesus Christ 1st century C.E. Judea

None of you truly have the faith if you do not desire for your brother
that which you desire for yourself.

Muhammad 6th century C.E. Mecca

Lay not on any soul a load which ye would not wish to be laid upon you
and desire not for anyone the things you would not desire for yourself.

Bahá'u'lláh 19th century C.E. Iran

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Socrates: *“Ever since I was a little boy, there has been a voice inside me, it never told me what to do, it only told me what not to do, and I have always obeyed that voice.”*

Jesus Christ came from the **Hebrew Golden Rule** (Rabbi Hillel) which he **expanded:**
*“Do unto others as you would have others do unto you”.... which is reflected in the Ancient
Egyptian Declaration of Righteousness.*

Mahatma Gandhi: *“Religion is one tree with many branches.”*

E.O. Wilson renowned American Scholar/Biologist/Philosopher: *“Innate sensors and
motivators exist in the brain that deeply and unconsciously affect our ethical premises;
from these roots, morality evolved.”* (**On Human Nature;** Harvard University Press, 1978)

Marilyn Wilhelm: *“Language of Oneness evolved from these Moral roots.”*

**“Conscious of our links with the past,
we achieve a deeper understanding of ourselves in the present
and discover possibilities and limits that will shape the future.”**

Rockefeller Commission on the Humanities

<p>The Golden Rule</p> <p>One Who Follows The Golden Rule Is Spiritually Mature</p> <p>Charles Xeller 7 Yrs.</p>	<p>黄金法则</p> <p>遵守黄金法则的人 是思想上 成熟的人</p> <p>(Chinese)</p>	<p>La Regla Dorada</p> <p>Aquel Que Sigue La Regla Dorada Es Espiritualmente Maduro</p> <p>(Spanish)</p>
<p>सुवर्ण-योग का अनुसरण सुवर्ण-योग सुवर्ण-योग का अनुसरण अध्यात्मवृत्ति कि दिक्-दर्शन।</p> <p>(Hindi)</p>	<p>חוק הזהבי אדם הנוהג בחוק הזהבי הוא רוחני מבוגר</p> <p>(Hebrew)</p>	<p>الذهبية القاعدة</p> <p>يتبع الذي إن الذهبية القاعدة وحيأ نضجا يملك</p> <p>(Arabic)</p>
<p>Die Goldene Regel</p> <p>Wer folgt der Goldene Regel ist spirituuell reif</p> <p>(German)</p>	<p>Amri Ya Dhahabu</p> <p>Yule amnazigatia Amri ya Dhahabu Amekomaa Kiroho</p> <p>(Swahili)</p>	<p>qui tác Hoàng-Kim</p> <p>người sống theo qui tác Hoàng-Kim là những người tâm linh chính chắn</p> <p>(Vietnamese)</p>
<p>Die Goue Reel</p> <p>Iemand Wat 'n Navolger Is Van Die Goue Reel Is Geestelik Volwasse</p> <p>(Afrikaans)</p>	<p>Золотое правило</p> <p>Тот кто следует золотому правилу духовно зрел</p> <p>(Russian)</p>	<p>স্বর্ণাচিত্ত নিয়মাবলী</p> <p>যে মনে চলে এই স্বর্ণাচিত্ত নিয়মাবলী সে আধ্যাত্মিকভাবে পূর্ণবিকশিত</p> <p>(Bangla)</p>
<p>Ri Rub'eyal Qaranisanik</p> <p>Achike ri ntzaqleb'ej Ri rub'eyal qaranisanik Re qanäl uxlab'ixel</p> <p>(Mayan/Cackchikel)</p>	<p>Ο Χρυσός Κανόνας</p> <p>Αυτός που ακολουθεί τον χρυσό κανόνα έχει πνευματική διάνοια</p> <p>(Greek)</p>	<p>La Règle D'Or</p> <p>Celui qui suit La Règle D'Or Est spirituellement mûr</p> <p>(French)</p>

Friendly relations and cooperation in our Global civilization depend on the **Global transmission the Global re-orientation to our Global Cultural moorings. The Moral Law / The Golden Rule** the founding stone of our **Common Moral / Ethical Heritage is the Legacy that belongs to every one every where**; it is the invariant of Civilized life the base of all Religions and **is valid for the believer as well as the non-believer.** Thus no **“Cultural shock.”**

Repeating the poems in different languages **requires getting the pronunciation, rhythm, and pitch right ---** this enhances the Spiritual exercise.

*“To speak a foreign tongue, understand it, and to translate it into one’s own
is to restore the unity of the beginning.”*

Octavio Paz (1914 – 1998) First Mexican *Nobel Laureate*.

CREDO	CREDO	我们的信念
Where There Is Love	Donde Hay Amor	有爱之处即有关怀
There Is Concern	Hay Preocupación	
Where There Is Concern	Donde Hay Preocupación	有关怀即有善意
There Is Kindness	Hay Bondad	
Where There Is Kindness	Donde Hay Bondad	有善意即有和谐
There Is Harmony	Hay Armonía	
Where There Is Harmony	Donde Hay Armonía	有和谐即有协助
There Is Helpfulness	Hay Colaboración	
Where There Is Helpfulness	Donde Hay Colaboración	有协助即有合作
There Is Cooperation	Hay Cooperación	
Where There Is Cooperation	Donde Hay Cooperación	有合作即有文明
There Is Civilization	Hay Civilización	
(English)	(Spanish)	(Chinese)
Кредо	CREDO	जहाँ प्यार है,
Там где любовь	Wo Liebe ist	वही जुड़ाव होता है।
Существует сомнение,	da ist auch Anteilnahme	जहाँ जुड़ाव होता है,
Там где сомнение	Wo Anteilnahme ist	वहाँ दया होती है।
Существует доброта,	da ist auch Güte	जहाँ दया होती है,
Там где доброта	Wo Güte ist	वहाँ सद्भाव होता है।
Существует гармония,	da ist auch Harmonie	जहाँ सद्भाव होता है,
Там где гармония	Wo Harmonie ist	वहाँ सहभागिता होती है।
Существует обходительность,	da ist auch Hilfsbereitschaft	जहाँ सहभागिता होती है,
Там где обходительность	Wo Hilfsbereitschaft ist	वहाँ सहयोग है।
Существует кооперация,	da ist auch Miteinander	जहाँ सहयोग है,
Там где кооперация	Wo ein Miteinander ist	वहाँ सभ्यता है।
Существует цивилизация	da ist Kultur	
(Russian)	(German)	(Hindi)

The **Credo** is a morning exercise for all pupils.

The pupils are centered and the tone of the day is set by the **Credo**.

The **Credo** could be described as an interfaith prayer because all Religions converge at a Common point *Love is God Anbe Shivam* (अन्बे शिवम्) *E agape inne Theos Selfless Love is God*. In the United States of America public schools are not permitted to mention God. The irony is that Scientific facts now verify Spiritual Law: *violate the Law of Love and the individual as well as society will experience disease/disintegration*. (LOVE-EVOL)

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*“The smaller our world becomes,
the greater is the urgency of mutual understanding of the peoples and their cultures.”*

*“Cuanto más pequeño se vuelve nuestro mundo,
mayor es la urgencia del entendimiento mutuo de los pueblos y sus culturas.”*

Joseph Needham (1900 – 1995)
Renowned British Biochemist/Historian/Sinologist.

Wilhelm Scholê International, in collaboration with **Bishop William Swing**, **Founder United Religions Initiative**; **Ambassador Mussie Hailu**, **Regional Director United Religions Initiative Africa**; **Lelei LeLaulu**, **Chairman Earth Council Alliance U.S.A.**; **Giovanni Picone**, **President Earth Council Alliance Italy**, is gathering a Global group of kindred spirits in an effort to unite the world in Harmony by spreading our ***Common Moral Inheritance: The Moral Law / The Golden Rule.***

If you are a kindred spirit and would like to join our **Global Golden Rule Movement** *which has now spread throughout 196 countries* please visit www.wilhelmschole.org.

Joining our **Global Golden Rule Movement** does not cost anything.
No one will solicit you for money. You are not required to leave any personal information.

“how to think ... not what to think”