ISUS NEWS

The Newsletter of the International Society of Unified Science

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BEYOND SPACE AND TIME is a continuation and extension of the subject matter of my previous scientific publications. In those earlier works, I demonstrated that a true and accurate representation of the entire physical universe can be deduced from two simple postulates as to the nature of space and time. With the aid of this complete and correct theoretical system, I was able to organize and systematize the previously existing knowledge derived from physical observation and measurement and to clarify the physical relationships applicable to the far-out regions that are partially or wholly inaccessible to observation. The present volume extends the scope of that work by examining the information about the existences outside (that is, independent) of the physical spacetime universe, and the local manifestations of the outside existence that can be derived from the new and more complete knowledge of the space-time universe itself.

Dewey B. Larson

With my assumptionlife need never end. There is no decisive argument for deciding between {certain} assumptions. I prefer the one that allows the possibility of endless life. One may hope that some day the question will be decided by direct observation.

Paul Dirac

When I see nothing annihilated(in the works of God) and not a drop of water wasted, I cannot suspect the annihilation of souls, or believe that He will suffer the daily waste of millions of minds already made that now exist; and with all the inconveniences human life is liable to, I shall not object to a new edition of myself ---- hoping that the errata of the last may be corrected.

Benjamin Franklin

Table of Contents

President Hoyt Stearn's Letter to ISUS,Inc Members & Friends

1

TWENTYFIRST ISUS ANNUAL CONFERENCE, Aug.12-13, Denver,

Wed Mar 13 21:23:47 MST 1996 President's Letter

Dear ISUS members,

I am delighted to have been elected to the presidency of ISUS for 1995-1996,

Many thanks to those of you who supported me. I hope I surpass your expectations.

A consulting electrical engineer by profession, I have a BS and MEE from Cornell University, 1967, and specialize in embedded electronic design and software engineering.

I have been interested in the Reciprocal System (RS) since 1984 when I read Dewey Larson's paper "The Dimensions of Motion", in which an explanation of magnetism appeared, the first satisfying explanation I have seen.

In my opinion, ISUS is on the verge of great growth for several reasons:

+ Firstly

Dewey Larson developed the optimum model of physical reality, and conventional physicists are starting to embrace these RS concepts.

There is also a trend to more financial and moral support for alternative research.

+ Secondly

Many more physical anomalies are being detected which conventional physicists find impossible to explain with their sophisticated theories. Still more epicycles must be appended to the point of absurdity. More conceptual dead ends are being reached by the conventional wisdom, opening the door to alternatives.

+ Thirdly

The Internet and World Wide Web have allowed broad dissemination of Reciprocal System material and sometimes heated discussions of it.

I have been very active on the Internet promoting the Reciprocal System for several years now, and I've personally answered many questions by electronic mail. It takes a while for these seeds to sprout, which they are now doing.

I am proud to say that I have made the Internet's "Net Legends" list and mathematical physicist John Baez' "crackpot list". Although these lists are jocular in nature, they do give us exposure, and I believe it is generally positive, even though there are bogus ideas present in the lists also.

Anyone differing in any significant way with the status quo has a good chance of appearing therein.

Those interested in alternate views might do well peruse these lists. I'm sure Einstein would have made the lists if he were active on the Internet during his productive years.

Our new World Wide Web ISUS home page, Created and maintained by Jan Sammer, gives us still more exposure. Jan will be adding more material to it. I have sent some of my

Internet postings to him for inclusion. I thank Jan for his efforts on our behalf.

+ Forthly

There are some fundamental changes occurring in our understanding of "reality" in general (as contrasted with "physical reality").

The study of physical reality has yielded some surprises that require broadening our view into the domain of metaphysics if we're to gain any real understanding. I believe the two domains intersect in the area of probabilities as they are dealt with in the Reciprocal System.

Fortunately, Dewey Larson addresses these types of issues in his recently published book "Beyond Space and Time". Thanks to Bob Tucek for working to get this book published. There are indications it will be quite popular.

+Fifthly,

Larry Denslow has just finished his book: "The Fundamentals of Scalar Motion". As an educator, he is talented in presenting this material in a way that complements Dewey Larson's material, and he has helped many to understand it better. Thank you Larry.

My thanks also to all the authors of technical papers included in "Reciprocity", especially our most prolific authors of hard technical papers, Dr. Ron Satz and Prof. KVK Nehru. They form the backbone of ISUS.

Thanks to Frank Meyer for performing the considerable work of preparing and mailing our publications, and to Daeron Meyer for assisting Frank in electronic publishing tasks.

We have the opportunity to really "show our stuff" by providing explanations for some recent experimental results that are completely devoid of any reasonable conventional explanations, such as the new Patterson power cell cold fusion device; the "sonofusion" cold fusion devices; advances in high temperature superconductivity; a myriad of Hubble Space telescope pictures; rail gun anomalies; and plenty more.

There are certain moments when publicising Reciprocal System theory has particular leverage—when the establishment guard is down, just after an experimental surprise for example. Here's a case in point:

An experiment was done whereby the result was that the sun didn't emit as many neutrinos as the pet theory predicted. "There must be something wrong with the experiment" they all said in unison, "We shall have to run another experiment." A New, very expensive experimental apparatus was built, run, and, alas, a similar result, with a similar commentary.

A third experiment was run, and the results were largely consistent with the first two.

What's a scientist to do? Revise the theory? Not a chance. When I suggested on the Internet facetiously that "When the experiment and theory disagree, the theory wins", it caused outrage in cyberspace.

These are the opportune moments to inject what the Reciprocal System has to say on such matters, and I have done so. I encourage all of you to do the same. You don't have to be 100% accurate, just get the name

"Larson" and "Reciprocal System" out into experspace, and mention that we have an

alternate explanation. Beware though, I have observed a pattern when a new idea is presented: The vested interests--

- 1. Ignore it, and if that doesn't make it go away,
- 2. Make fun of it, and if that doesn't make it go away,
- 3. Attack the messenger, and if that doesn't make it go away,
- 4. They say they've really thought that way all along. then
- 5. Incorporate it as if it's always been that way.

Some of the Reciprocal System concepts have made it to 5., although the wording is often different. Credit has never been given to my knowledge.

Although credit is certainly nice, I still count it as a success if a correct idea makes it into the mainstream.

I think the best way of all to call attention to the Reciprocal System is to invent, design, and successfully build a product based on it. I have been keeping my mind open to that possibility since 1985.

I submitted a Small Business Innovation Research (SBIR) proposal a few years ago to investigate a reactionless thruster which I invented, based on RS theory.

Ron Satz submitted an SBIR proposal to investigate the scattering of neutral particles from gold atoms. This doesn't strictly lead to a product, but it would certainly make "waves" if performed and the expected results were published.

Both were declined, however, but only a few percent of the proposals are funded each year. I encourage you apply also, because the SBIR program is well tailored to funding unconventional projects by very small entities, and the contracts are very favorable to the principals, if granted, \$100,000 to start.

I encourage you to write to the editors of popular publications, radio stations such as NPR, as well as to Usenet newsgroups on Internet, challenging conventional scientists whenever they spout some nonsense, whether about black holes, quarks, singularities, big bang, element 120, or anything else that strikes you as bogus.

You can speak up whenever someone wants to find magnetic monopoles or gravity waves, talks of the beginning of the universe, anti-matter propulsion, or gravitons.

You can explain enigmas such as gamma ray bursts when they are described as completely unexplainable.

ISUS members are a very philosophically diverse group united by the common interest in physics. The diversity is healthy, but does lead to differences of opinion on what ISUS is and does.

Experiments have demonstrated beyond any doubt such effects as backward causation and precognition, not to mention non-locality which make many people very uncomfortable with the current scientific views on reality. I see a new openness and thirst for knowledge from unconventional sources blossoming.

Let us hope that ISUS can rationally help satisfy this thirst. There are plenty of sources that attempt to irrationally satisfy this thirst.

I do not want to see any of us behave similarly to the ways we accuse others of behaving. We must always maintain an open mind no matter how strange a new idea first appears. Always give it a decent hearing. Allow others to express themselves.

The most divisive issue is how much metaphysics is permissible to be incorporated into "Reciprocity". If we had a surplus of highly technical hard science papers, this would not be an issue, as they would be given precedence over the controversial ones. As it is, the number of papers submitted is painfully low.

In that case I have no problem including carefully selected metaphysical papers in "Reciprocity". As I have implied above, it's a fuzzy line separating physics and metaphysics, which line is going out of focus more with each passing day.

These are exciting times we live in, and we have the opportunity to be at the forefront of science!

All the best to you,

Hoyt A. Steams jr., President, International Society of Unified Sciencel

A man is a great thing upon the earth, and through eternity
-but every jot of the greatness of man is unfolded out of woman,
First the man is shaped in the woman, he can then be shaped in himself.

Walt Whitman

In all my lectures I have taught ,one doctrine, namely, the infinitude of the private man.

Ralph Waldo Emerson

assume among the Powers of the Earth, the equal and independent Station to which the Laws of Nature and of Nature's God entitle them, We hold these Truths to be Self-evident; that all Men are created equal and independent; that from that equal Creation they derive Rights inherent and unalienable; among which are the Preservation of Life and Liberty and the Pursuit of Happiness;

A Declaration by the representatives of the United States of America in general Congress assembled.

If this country cannot be saved without giving up the principles of the {Declaration}, I would rather be assassinated on this spot than surrender it.

Abraham Lincoln

International Society of Unified Science

21st Annual Conference

Dates: August 12 & 13, 1995, Monday & Tuesday morning

Location: Red Lion Hotel, 3203 Quebec Ave., Denver, Colorado Across the street from the old Stapleton Airport

The special hotel room rate is \$60.00 per room per night for a room with double bed for one to four occupants. To get the special room rates make your room reservations by calling 303-321-3333 Ext. 4500 before July 15th. You must mention you are with the "Global Sciences Congress". (The hotel will not know who ISUS is, so be sure and mention "Global Sciences Congress".)

After July 15th the block of rooms that is reserved for us will be released. The Red Lion Hotel has free airport pick up from the Denver International Airport (DIA). During the conference, emergency contact may be made with participants through Phillip Porter at 800-873-7074.

Persons wishing to share a room and who do not have someone to share with may contact Phillip H. Porter, 703 Sheridan Ave., Loveland, Colorado 80537-5467, who will coordinate requests. Reserve a room and then contact Phil. Extra rooms will be released.

Those wishing to fly into the Colorado Springs airport may contact Dr. Ronald Blackburn, 303-683-0420, FAX: 303-683-0428, 9546 S. Harford Ct., Highlands Ranch, Colorado 80126 to make shuttle arrangements.

The ISUS Conference this year is being held just after the Global Sciences Congress (GSC) which runs August 8-12, 1996. We are getting favorable room rates because of the much larger GSC. ISUS wishes to thank Mr. Dean Stonier, head of the Global Sciences Institute, for making this possible. There is no connection between the International Society of Unified Science and the GSC.

Last year several ISUS members attended the GSC and found if very interesting. ISUS also had an exhibitors table which allowed us to share with GSC participants about the Reciprocal System, give out ISUS flyers and sell some of Dewey's books.

Those wishing to attend the GSC will need to register separately. The GSC "Early Bird" registration, which must be sent in soon, is \$125.00 and you get front seating privileges. Registration at the door is \$160.00. Daily and session registrations are also available. For complete information on the GSC contact Global Sciences Congress, c/o 669 Peoria #345, Aurora, Colorado 80011, phone 303-343-6461, FAX 303-344-1578.

Dr. K.V.K. Nehru, from Hyderabad, India, is expected to attend the ISUS Conferance and Retreat. He also has been invited to present a paper on the Reciprical System and speak at the International Forum on New Science, October 4, 1996, in Denver. In between, he will be in Salt Lake City reviewing Larson's papers.

ISUS Post Conference Mountain Retreat

We have made tentative arrangements for a mountain retreat after the conference for those interested. Interesting discussions on science and the Reciprocal System are expected. Other expected topics of discussion will be mountains, sky and trees.

It will be free form with time to do whatever we want. It is intended to be a vacation time as well as an idea stimulation and discussion time. People can stay as long as they wish.

It would be held in Estes Park, Colorado, a two hour drive out of Denver, at the H-Bar-G Ranch AYH Hostel facility. Estes Park is the gateway town to Rocky Mountain National Park. The H-Bar-G is an old guest ranch situated in a scenic location on the east side of the valley looking over the town and into the National Park.

The costs at the H-Bar-G are very reasonable. \$8.26 per night with a \$25 AYH membership. It is basic dorm accommodations in a lodge and cabins with central, shared kitchen facilities. We take care of our own meals. Stores and restaurant facilities are available in town, a short drive away. If enough advance interest is shown, we will have a cabin to ourselves.

Participants will need personal items and a sleeping bag or sheets. Blankets are available. Bring a coat. It gets cold in the mountains. Sturdy footwear is recommended.

Spouses and families can also come as there is lots to see and do in the area. Advance arrangements must be made for families to be housed together. The H-Bar-G has a rental car available when not scheduled. Limited arrangements can be made to get from Denver or Boulder to Estes Park.

In order for this retreat to be held, at least six people must send deposits by June 30, 1996 to Phillip Porter 703 Sheridan Ave., Loveland, Colorado 80537-5467. The required deposit is \$8.00 for the first night. Make the check out to "H-Bar-G". Please include your phone number and a stamped, self-addressed envelope. Soon after July 1st, confirmation or cancellation notice will be sent so cheap air fares can be secured.

THE RECIPROCAL THEORY OF THE PHYSICAL UNIVERSE

of this new theory are derived. A development of the consequences of Two postulates as to the nature of basis from which all of the conclusions these postulates, without any supplementary assumptions and without calling upon any information from observation, accounts for the existence of the major physical entities, defines their properties, establishes the respace and time--45 words in all--are the lations between them, and provides For the first time in the history of scithe information from which numerical magnitudes applying to these propence, a general physical theory is deerties and relations can be calculated. rived from a single set of postulates.

The Reciprocal System, developed by Dewey B. Larson over a 40 year time period, is at once revolutionary and conservative. It is the first unified theory, and the lirst general theory, but its central ideas have been expressed by philosophers through the ages. From just two general postulates, Larson has derived an all-embracing theoretical universe, answering simply and reasonably such questions as:

What is the fundamental component of the Universe?

Why is the Universe expanding?
Why does Light behave sometimes as a particle and sometimes as a wave?

What holds the parts of an Atom together?

Why do Electrons and Positrons annihilate one another to produce photons?

What is the origin and nature of Gravitation?

What is the origin of Supernovas, Pulsars, and Solar Systems?

What is the connection between exploding Galaxies and Quasars?
What is the origin of the Cosmic Rays?
Is the Universe finite or infinite?

What is the origin of the Cosmic Rays? Is the Universe finite or infinite? Is the Universe in a steady-state, or is it evolving?

MOTION IS THE FUNDAMENTAL ENTITY

The thesis of this present work is that the universe in which we live is not a universe of matter, but a UNIVERSE OF MOTION, one in which the basic reality is motion, and all physical entities and phenomena, including matter, are merely manifestations of motion. The atom, on this basis, is simply a combination of motions. Radiation is motion, gravitation is motion, an electric charge is motion, and so on.

The physical universe is not a universe of matter existing in a framework provided by space and time, as seen by conventional science, but a universe of motion, in which space and time are simply the two reciprocal aspects of motion, and have no other significance. Mr. Larson determined the properties that space and time must necessarily possess in a universe composed entirely of motion, and expressed them in the form of a set of postulates. He then showed that development of the consequences

of these postulates by logical and mathematical processes, without making any further assumptions or introducing anything from experience, defines, in detail, a complete theoretical universe that coincides in all respects with the observed physical universe.

According to the SCIENTIFIC AUS-TRALIAN, the Reciprocal System is "The True Theory of the Physical Universe--from Microcosmos to Macrocosmos."

WE CAN TELL YOU ABOUT IT

ory of a universe of motion. The ob-Science, Inc. is a group of scientists, engineers, and others who are trying to call attention to Dewey B. Larson's thepostulates, together with everything The International Society of Unified advancement of the Reciprocal System which makes use of two fundamental that can be derived from these postulates by logical or mathematical processes. The editors of Reciprocity, Journal of the International Society of Unified Science, welcome papers, ideas, and experiments, especially from jective of the Society contributors.

Membership is open to all persons interested in the advancement of scientific knowledge.

SPACE-TIME and BEYOND

Frank H. Meyer

{This lecture was presented to the U.S. Psychotronics Association's Annual Conference during July,1985 in Dayton, Ohio.}

Dewey B. Larson^(1,2)has discovered and elaborated how to unify physics through his **Reciprocal System of Physics and Phulosophy.** This discovery, I think, is the one most important development and achievement of world science since the Copernican Revolution, which began in sixteenth century Poland and Europe. Larson has accomplished his work, I suggest ,by following the precept of Frederick Nietzche: "If you seek comfort, believe; if you seek truth, then, inquire."

Before Coopernicus, religion and science in the West taught that the supreme worth of humankind depended on the presumed fact that the whole physical universe is centered about an immovable earth. The presumed fact was and is, no fact at all. Copernicus's detection of this elementary error of science and religion was a most salutary development. "A truth that disheartens is of far more value than the most stimulating falsehood. Without veracity neither science nor religion can be produced, let alone unified.

More than four centuries after Copernicus, as the twentieth century draws to a close, science is about to take a giant leap toward unification. Thanks to the Reciprocal System, a quiet revolution recently already has occurred in physics. This break in continuity not only will take the Copernican Revolution further forward, turning science from a sun-centered direction to a bio-cemtered orintation; it also will accelerate the world-wide endeavor to unify physics that has commenced at the beginning of this century. All this will be a welcome change for all people interested in advance in the life of both science and religion, because unification of religion can hardly even begin until substantial unification and understanding of science is produced. OVERCOMING DISUNITY IN PHYSICS

Physics presently is more disunited by what phyicists know that isn't so than by what we don't know. No science can be united on a foundation of error. Physics has not been the truth, the whole truth and nothing but the truth even about the physical world. An even more fundamental error in science is also more widespread in modern times. It is the error of believing that all that exists is in space and time, and specifically in an unmoving, immovable 4-dimensional space-time continuum. It is the error of believing that the human world is only a part of and less than the physical world rather than that humankind is the larger whole, of which the whole physical world is only a part.

The contemporary situation in phyics is analogous to that which prevailed in sixteenth and seventeenth century Europe. The general run of of natural philosopher then knew that heaven, earth and the rest of the physical universe are centered about an immobile planet. Physicists then were referred to as 'natural philosophers' To-day's philosophers of Nature "know" that all that which exists on earth, in heaven and beyond is centered about moving matter. Nevertheless, the physical universe and the human universe are no more centered about moving matter than all of existence is or ever was centered about an immovable earth.

Larson has shown that the physical universe itself actually is the whole universe of motional speed displacements from unit speed of space-time progression. Thanks to the R.S, we think that the material sector of the physical universe is but one half of the physical universe as a whole. This sector is the half in which everything moves in space and everything moves with a speed less than the unit speed of space-time progression.

In the other half, which Larson calls the 'cosmic sector', everything moves in time. In this sector a condition of stability is that everything moves in time with speed in excess of unit speed.

A model of the physical universe, premised on moving matter, contradicts itself. Because motion is presumed to be a property only of matter, the model implies that motion without matter is impossible. Of course, this rules out any independent progression of space with time progression. Here is the reason conventional physicists are unable to measure the rate with which time progresses. Space-time progression is an immmaterial, quantised physical phenomenon, a nothing-no thing-, dependent on the finite divisibility of both space & time and motion.

hat has to be recognized also is that if matter were the exclusive source of motion, that is, if motion were a operty of matter, then matter would be self-moving. In consequence, perpetual motion of the first kind and of e second kind not only is not prohibited, but can and does occur. However, no one has yet demonstrated expetual motion in the physical universe. Until someone does demonstrate it, the hoary hypothesis that motion nothing but an inespential or essential property of matter had better be discarded in favor of the postulate that otion is identical with space-time.

DENTITY OF SPACE-TIME AND MOTION

In outstanding discovery of the Reciprocal System of physics is that the physical universe is limited to the world of space and time and that physical space-time is identical with physical motion. This is because physical motion lways involves a special relation of space and time and nothing else.

Vithout identifying the nature of space and time, Newton found them to be quite unrelated. Without identifying the nature of the relation of space and time, Einstein did find them to be inseparable in physical fact. Unfortunately, both Einstein and Newton ruled out the possibility that space and/or time have to do with and are elated to motion. Both agreed with Isaac Burrow's reply to the question: "But does not time imply motion?" lot at all. Both disagreed with Aristotle, for whom "time is an aspect of motion." Neither Aristotle, Newton, for Einstein, recognized that space also is an aspect of motion.

n actuality time and space are the two necessary and sufficient conditions or aspects of all physical phenomena of motion. All physical motion, according to Larson, (1,2) invariably is a reciprocal or multipicatively inverse elation of time and space. In their turn, space and time together depend for their very existence on the existence of motion. Anyone in the material sector can verify for oneself that slower motion equals less space and more ime, while faster motion equals more space and less time. Speed displacement from the unit speed of space-time progression is the natural and adequate measure of all scalar motion, physical in nature. Energy and mass as discrete quantities of diverse compounds of motion can be and are equal or equivalent. Energy and matter (mass) are not identical.

Recognizing the identity of motion and space-time, D.B. Larson has created the Reciprocal System of physics. It essentially consists of two Fundamental Postulates, expressing the postulated properties of space and time in a universe of motion:

- 1. The physical universe is entirely composed of one component, motion, existing in three dimensions, in discrete units and in two reciprocal forms, space and time.
- 11. The physical universe conforms to the relations of finite mathematics, its magnitudes are absolute and its geometry is Euclidean.

Through the aid of the Reciprocal System Larson discovers, by implication, that the physical universe, while enormous, is finite in all its parts and is finite, cyclical and unchanging as a whole. It is in no sense itself infinite. Larson says: (9)

Infinity is excluded from it, since we are defining motion as a relation between a time magnitude and a space magnitude, and we deduce that the quantity of motion is finite. Since all physical entities and phenomena are manifestations of motion, they are all measured in terms of 1/n or n/1, where n is finite. No infinities are possible. This is another of the many places where the Reciprocal System of physics has an advantage over conventional theory, in which infinities are a considerable source of embarassment. As Richard Feynman puts it: "If we get infinity, how can we ever say that this agrees with nature?"

Since the physical universe is a finite whole, it is governed throughout by the basic Euclidean axiom, which pertains to all finite wholes: a part is *less* than the whole and only the sum of the parts *equal* the whole.

The finitude of the physical universe implies that each and every part of it is less than the whole and only the sum of the parts can and does equal the whole. Thus, no part of it can be or is equal to or greater than the whole. For example, the mass of an electron cannot be infinite and greater than the total finite mass of the whole physical universe, even when by moving in time it travels with an inverse speed in excess of unit speed.

OVERCOMING THE DISUNITY OF HUMANKIND

What lies beyond Space-Time? Humankind!

While revaluing the nature and structure of the physical world, can the Reciprocal System serve to revalue also the relationship of humankind, particularly the private man and/or woman, to the physical world? I believe so. Unifying the science of physics is an essential and indispensable step of the inquiry into advancing the aim and knowledge of uniting humankind.

While revaluation of the human world and nature is far more difficult than revaluing the physical world and

nature, the goal of uniting humankind is just as important and probably more important than even the goal of unifying physics.

Now that the Reciprocal System discloses that the physical world as a whole is a finite and unchanging whole, how about the human world as a whole? Is it too, finite and unchanging, or infinite and evolving?

At first the human world appears to be as finite as the physical world, since in so far as human beings are physical beings we too are not otherwise than finite. To this degree we can be counted, measured and computed by the same finite arithmetic which applies to counting, measuring and computing all the commodities we produce that are bought, sold and owned in the marketplace.

Price is the measure of all finite values expressed in terms of medium of exchange commodity, money. It appears that in all respects in which private human individuals are physical and unequal, we are finite: height, weight, performance, knowledge, ignorance, intelligence, stupidity, longevity, etc. In the light of available evidence further reflection reveals that the case is far from proved that a human being, specifically an ethical human being, is nothing but a finite physical being.

Finite unities are not the only kind of gestalt wholes. Infinite unities also are known to exist. The human realm as well as the realm of numbers are known examples of infinite wholes. Until recently mathematicians themselves maintained that no one could count the infinite and consequently infinite unities went largely unnoticed. However, a little more than a century ago a European mathematician, Georg Cantor, showed that it is not impossible to count the infinite by learning how to count numerous infinite mathematical unities or sets. Infinite unities now can be counted just as well as finite unities, but are characterized by a quite different axiom from the Euclidean axiom which characterizes all finite unities. All infinite unities or wholes are characterized by the Cantorian axiom: A proper part of each infinite whole equals the whole.

It has been known for some time that the whole set of counting numbers is an infinite set. Cantor demonstrated that this whole set can be counted with just the even counting numbers.

In 1846 Ralph Waldo Emerson wrote in his diary: "In all my lectures I have taught one doctrine, namely, the infinitude of the private man." When Emerson wrote "man," I think he included "woman" as well in the generic term for humankind. I think further that he intended "infinitude" to refer to the ultimate human worth of the private ethical man and/or private ethical woman – men who cannot be bought, women who cannot be sold.

If "man" denotes an ethical human being, who behaves as best as he or she knows how, is the private man infinite or not in ultimate human worth? Probably no question more relevant to the aim of uniting humankind calls for an answer.

A private human individual, being finite in ultimate human worth, would be compatible with his being entirely a physical being. Since finitude implies inequality, private persons of finite worth also would be compatible with the aristocratic doctrine of human inequality, i.e. that all men are created unequal in ultimate human worth as well as in performance and longevity. Here is the doctrine, enforced with deception and violence, that divides and disunites humankind.

A private human individual, being infinite in ultimate human worth would be compatible with his being ultimately a non-physical being, temporarily housed in and governing his physical being (his material body and biological control unit). Since infinitude implies equality, private persons of infinite worth also would be compatible with and enhance the democratic doctrine of human equality, i.e. that all men are created equal in ultimate human worth, however unequal in performance, longevity, etc.

If the doctrine of human equality be true and is voluntarily acknowledged by the people, then humankind can and may take a big step forward to the goal of uniting our potential and ourselves instead of continuing wantonly to waste them.

The doctrine that all men are created equal, namely, the doctrine of human equality, can be demonstrated as follows, only if the private woman and/or man is infinite in ultimate human worth:

The worth of a person is due to her or his membership in an infinite whole, namely, Humankind. Infinitude means that any one member is equal in worth to the whole of Humankind. Since all entities equal to the same entity are equal to each other, all men are created equal.

Until you learn to appreciate that your own ultimate human worth is infinite and to behave and love yourself accordingly, you cannot appreciate adequately the worth of friends and strangers, who behave themselves and love themselves, as they should.

SPACE-TIME AND BEYOND

Humankind is involved with Space-Time (the physical world) and Beyond (the human world, of which the

physical universe is but one part). The human universe is infinitely larger, greater and more remarkable than the entire physical universe. The physical universe as a whole is finite, cyclical and unchanging: the more its parts change, the more the whole stays the same. The human universe is infinite, law-governed, evolving, growing, discovering, creating.

The direct way to explore and examine the human world is to explore and examine its simplest and most accessible sectors, the material and cosmic sectors of the physical region. Physics is easier to unify than religions and unified physics will facilitate the more difficult and important aim of unifying religions.

Let me finally try to dispel the myth that unless you are a physicist yourself, you are hopelessly and forever unable to explore, learn about and understand the physics of the Reciprocal System, the theory of relativity, quantum mechanics, etc.

As a boy, I remember being told that no more than six people, including Einstein, could ever understand the theory of relativity, no matter how hard you tried, because Einstein himself couldn't explain it to you, unless you first studied a whole lot of mathematics for the rest of your life.

Einstein himself made no such claim or pretext. One afternoon on the Princeton campus Einstein took a coffee break in a room of the Institute of Advanced Study. A graduate student in the Woodrow Wilson School of Political Science wandered into the room. Seeing Einstein, the political science student saw an opportunity to learn about the theory of relativity, about which he had heard a lot but never studied. He introduced himself to Einstein, told Einstein where he came from and wondered whether the physicist could brief him about the famous theory. Einstein smiled at him and said:

"Young man, it is like this. If you sit with your girl on a sofa, two hours go by as though they were two minutes. But if you sit on a red hot stove, two minutes seem like two hours. That's the theory of relativity."

Like the theory of relativity, the Reciprocal System of Physics and Philosophy can be learned by anyone who cares enough to know about it.

REFERENCES

- 1. Larson, D.B. THE UNIVERSE OF MOTION, North Pacific Publishers. 1984.
- 2. Larson, D.B. **NOTHING BUT MOTION**, North Pacific Publishers. 1979.
- 3. Larson, D.B. Letter to F.H. Meyer, 1985.

The divine likeness of man is an idea known in many religions. It is the contribution of Judaism to have taught the tremendous implications of the idea; the metaphysical dignity of man, the divine preciousness of human life. Man is not valued in physical terms; his value is infinite.

Abraham Heschel: The Insecurity of Freedom

True religion is that relationship in accordance and reason and knowledge, which man establishes with the infinite world arouund him and which binds his life to that infinity and guides him.

Leo Tolstoy: A Confession and other Religious Writings.

(The Declaration) acknowledges that man has a soul and for that reason: is equal to every other man, and that is the cornerstone of what we call the American System.

Owight Eisenhower

It is wrong to say that God made Sich and Poor; he made only Male and Female and he gave them the earth for their inheritance.

Thomas Paine