Keith David Henry was born in 1962 in Philadelphia, Pennsylvania. By trade he is a Certified Systems Engineer, a Certified Trainer, and a published author. He has been an Information Technology professional for over thirty years, and has been an adult educator since 1986.

Having previously been an ordained Pentecostal Minister for a church in Philadelphia he later turned his sights to more esoteric pursuits, becoming conscientiously involved in the study and practice of various metaphysical disciplines. His reevaluation of mainstream religion coupled with his trademark sense of curiosity and propensity toward research opened up a whole new venue of expression for him. He prides himself on his wide range of general knowledge within this venue and has over the years become a Theoretical Metaphisicist.

Keith is the author of several books on Metaphysics and Philosophy and has recently published his first science fiction adventure novel. He is also an accomplished artist.

Keith is the host of the Internet talk radio program "Progressions of Consciousness" which airs weekly on the Community Listening Network station (CLNradio.com), the number one rated Internet Radio station in its genre today. Topics of discussion include metaphysics, philosophy, and other esoteric subjects of interest. His broadcast may be accessed by visiting his web site: www.CLNradio.com. Click on the "listen now" link at the scheduled times.

"The mind, once expanded to the dimensions of larger ideas, never returns to its original size." - *Oliver Wendell Holmes*

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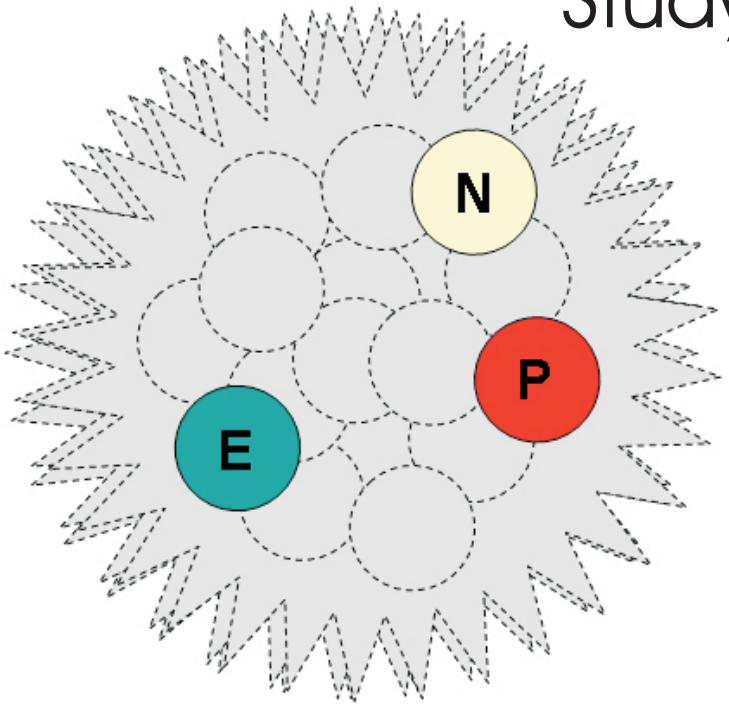

Lesson **Two**

What does modern physics reveal about what we call "physical reality" and what it's really made of?

Reality Science

Introduction

All physical matter in the universe is made out of atoms. But these tiny particles themselves are made up of 99.999999999… (with many hundreds of "zeros") percent space, or "ether" and grossly less than .0000000001 percent mass and/or energy. Basically, matter is made out of almost nothing, yet according to our senses matter has density, weight, and substance.

It's important to realize that the "space" that makes up a vast majority of the atom is not the same thing that "outer space" is made of. Outer space is made up of molecules of gas which have density, weight, and substance even though that gas is invisible to the naked eye. Unlike the atom, "outer space" isn't empty, it just looks empty.

But the space or "ether" that comprises the overwhelming majority of the atom has no density, weight, substance, or any other characteristics that we can measure. For instance, light particles (photons) have no mass/weight, but we can measure and record the energy that they have inside of them. But this space or "ether" inside of the atom has no measurable characteristics whatsoever. As far as scientists can tell, this "space" is made out of nothing at all.

CONVERSATION TOPICS:

1) How does it hit you that what you have been taught and what you seem to experience about physical reality is completely different than the scientific facts about it?

2) Are there any things in your life that you were once absolutely certain of, and then later came to discover were untrue according to the facts?

3) How did you respond to the new information?

No one actually sees, hears, tastes, touches, smells, or perceives anything in our environment. For instance, the sensation of touch creates the impression that we can actually handle and feel physical objects. But what's really happening is that the electromagnetic charge that exist as part of the atoms in your fingers opposes the electromagnetic charge that exist as part of the atoms in the object you are supposedly touching. This creates a sensation of touch even though there has been no actual physical contact between the person's hand and the object they believe they are touching.

The force of gravity gives us the impression that objects have weight, when in reality those objects are responding to the warping effects of gravity upon the fabric of space/time, as Albert Einstein proved. Similarly, all of our senses are the result of the interaction of electromagnetic signals that are interpreted by the brain. According to the most recent scientific studies physical reality is essentially an illusion... a trick of the senses and of perception. (Perception will be discussed in lesson three)

How Do The Scientists Know?

The obvious question is what makes scientists so sure they are correct about these newest theories? That is a good question.

First, please realize that the conclusions scientists are coming to about the nature of physical matter are not simply guesses. They are the result of empirical experiments as well as mathematics. While this may seem hard to swallow at first please realize that all of modern science is similarly based upon theories, yet has produced many products that are used today.

For instance, no one really knows how electricity works. Everything we have done with it has been based upon theory. But we have used observation and mathematics to create all

types of devices. In fact, it's rare to find a useful device today that doesn't operate with electricity in some fashion.

Another example is space travel. Prior to Einstein's theories of relativity everything we have known about gravity has been based upon Newton's laws and mathematics. We used this science to put men into earth orbit, on the moon, and to send unmanned space craft across our solar system, even though Einstein showed Newton's laws and theories to be incomplete.

But perhaps the best example is the microcomputer. The same experiments that have yielded the theories about the actual nature of physical reality have also yielded the transistor and the microcomputer which exist everywhere in the world today in almost every type of device that is used… much like electricity is. So, theory backed by mathematics and observation is a very valid and useful approach to discovering how things really work.

CONVERSATION TOPICS:

1) Based upon these examples above have you changed your mind about how important theories are to scientific discovery and usefulness?

2) Besides the usefulness of the inventions listed above, what practical application could the newest theories of science about physical matter have in the way we conduct our everyday lives?

Quantum Physics

Quantum Mechanics is the newest branch of sub-atomic physics. The main difference between the quantum and the traditional models of sub-atomic physics are important. Albert Einstein is the father of Quantum physics, even though he disagreed with many of its theories. But his unification of two of the four recognized universal forces kicked off a renaissance in scientific thinking which lead directly to quantum mechanics.

The rules of our physical universe are very strange indeed. Among the strangest elements are the so-called measurement problem, the mystery of the appearing and disappearing sub-atomic particles, the existence of eleven dimensions, unification theory, string theory, and membrane theory.

The world of astrophysics has also jumped on the band wagon reporting astonishing facts about the interplanetary, galactic, and universal worlds that no one could have possibly imagined.

The Bottom Line

These new discoveries are providing insights into the true nature of man and of the "physical" world. It's no accident that this type of information is coming forth at this particular time in history. Physics and Metaphysics seem to be merging into *apocalypse*.

Modern particle physics tells us that the physical universe – including our bodies – is not physical at all, but rather a field of vibrating energy that only appears to be physical because of the way our senses work in conjunction with perception. We are not really solid beings as we suppose, but ethereal beings. That is, our true nature is "spirit" and energy, not solidity and physicality. We live in a world of illusion. What, then, is the purpose of this illusion? Is it possible that the way we look at the material world, as solid matter, is not the way we were designed to function, and that we as a species have somehow lost our way?

The primary purpose of this lesson is to illuminate the difference between what we believe is real and what science says is real. This newer information must cause us to ask the three age-old questions with a new sense of vigor and wonder: What are we doing here? Where did we come from? Where are we going?