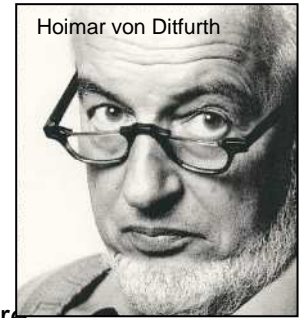


All = 1

A Philosophy Of Evolution by Walter Keil

(Dedicated to Hoimar von Ditfurth the great German scientific author)
(Thanks to Lorna Klassen for her work of translation)



At any time in history, it was not possible for humans to find two equal things in this world. All they could only find were things that were almost the same.

The world is always showing an unbelievable variety to the human observer. In the past, as there were no machines for the production of goods, it was nearly impossible to find two things, made by humans, which looked the same. At the same time, some things may have looked identical at a first glance.

Upon closer inspection, the differences between similar things always became obvious, although a human producer may have tried to make an exact copy of it. All what a human copyist could reach was always great similarity.

As we all learned in our life, this is coming from our limited human abilities. When we take a look at things which were made by automated industrial production, we can see masses of goods looking quite the same. But if we try to analyze it a bit closer, we can find the differences. Maybe they are rather small, but they are there.

So it's maybe impossible for us to separate two water bottles of the same trade mark by a normal examination. But if we take some modern measuring instruments it will be not really difficult to find out the differences.

With highly accurate scales we surely will find discrepancies in the weight of these water bottles. Beside this, we can also find different tone pitches when we try to measure the resonant frequency of a variety of bottles which looked the same.

Why can we argue this way ?

This all comes from the unbelievably small components of matter.

Under normal human circumstances it is not possible to deal with single molecules or even atoms. That's why the accuracy of a human manufacturer is limited.

Inexactness is always there when people create things and you can understand it when you realize how big the number of atoms is – even in small amount of matter.

For example: 2 gram carbon contains about 100 000 000 000 000 000 000 000 atoms of carbon. It's a 1 followed by 23 zeros!

But with the growing ability of science to control very small details in the world of microcosm. All this will reach new standards. Due to huge technical efforts in atomic laboratories they already deal with single atoms.

So we can understand that all the things we find in our world are only of apparent conformity. Everything we can perceive with our senses consists of a huge number of atoms. So we understand, alone from this point of view, that the philosophical thesis that we observe the world in an incomplete way, is absolutely true.

What do we know from the equality of creatures ?

This question is much more difficult to answer.

All living beings are consisting of atoms and molecules and they mutate from second to second. Their metabolism is never standing still.

So the cells of the bodies of all creatures are regenerating themselves regularly. Biologists speak of a cell death programme (apoptosis). A human of today is not the human of yesterday or tomorrow. Every organism is executing self-preservation and adaptation to the circumstances of life in every moment. Therefore an organism is a restless construction site, dealing with atoms and molecules. An ultra complex information exchange system is responsible for this process. It works in a holistic and centralistic way. (the soul ?)

Because of a construction plan, the genetic code represented by the genes, which is contained in every cell, therefore we can ask if two identical organisms, based on the same genetic code are possible ?

Microbiology has found, that similar attributes of creatures, are based on similar genetic configuration. Beyond this there are individual differences in every living being. So every organism has a special uniqueness, and every human can observe this. Furthermore a genetic mechanism takes care of an increasing variety in its offspring. Across-the-board you can declare that life is developing in the direction of more variety and quality. Biologists established the term of "evolution" after they recognized that life is a developing system.

Are cloned creatures really identical?

By cloning, you will get a creature which is a duplicate based on one set of genes only. First of all, referring to multicellular living beings, cloning is not a natural process. Clones are a product of artificial intervention and probably really equal in their genetic configuration. But it's not clear yet if similarity is really given just to the last single gene. Due to the indeterminism principle in the section of quantum physics, genes and their host cell must normally underlie slight discrepancies.

Scientists presume therefore clones are not perfect identical.

But it can be said, that cloning is contrary to an essential aim of evolution: the increase of diversity.

There are more reasons to find which could be responsible for some differences in cloned living beings. At first, it comes from the smallness and the great number of molecules and atoms, even in a little body, and second, there is always an effective influence of the surrounding conditions to every organism.

But we can say about clones, that they have a very little variety, compared with their ancestors. A similar poorness in variety can be seen in monozygotic twins. There is a normal diversity to their ancestry, but not between the twins.

The individuality of a living being and also of a human being is limited.

It's clear for us that we look like men normally do. But beside this, we have a similar behaviour and capacity of mind. We are able to recognize, that we belong to the human species and beyond it we can see, that we are also a member of smaller groups with equal attributes. We can categorise human beings according to physical and mental qualities. For instance we belong to the group of tall or small people, to the group of people with small or great intellectual abilities, with low or high muscular strength or musicality. And everybody has somatic characteristics we call racial traits: i.e. the form and colour of our hair, the colour of our skin, the form of our eyes, and more.

We also recognize beyond the borders of a species and genus that we have a lot in common with other living beings. So we can find us among other classifications like mammals, creatures living on land, creatures with lungs, multi cellular animals, vertebrates or carnivores, and many more. You can find a lot of categories, which are showing us clearly the relationship to a good deal of living beings. But a fundamental feature unites all life whether micro organism, or sea dweller, or plant, animal or man, all owe

their lives to genetic code based on DNA (Deoxyribonucleic Acid).

Scientists assume that this may have been different in the beginning of the biological evolution, but the DNA code succeeded. Due to this, all of life is naturally related to one another and with all mankind. When you now recognize, that men cannot live without the biosphere and you also see that mankind is totally interlaced into the web of life, you can say, **we are “absolutely” part of the biosphere !**

A consideration beyond this point is leading us to an all-embracing statement:

we are “absolutely” part of the universe and it’s development !

Every little child learns that we need to breathe constantly to stay alive. Without the oxygen from the air around us, we would die in a few minutes. Everybody knows that we have to drink and to eat sufficiently every day.

The fundamental reason is because our body needs energy permanently.

But our body needs a lot of vital substances, too, in order to perform it’s steady regeneration and to defend viral and bacterial attacks.

(A lot of different Atoms and molecules. Some are really simple, like water and salt, for instance. Some are really complex, like proteins and vitamins)

Due to medical and biological research we know now that our body regenerates the biggest part of it’s cells in about 28 days. About 50 – 70 millions of cells are replaced every day !

And **our body contains almost every substance which is found on our planet.**

Among them there are also hazardous materials of natural and artificial origin, which our body has excrete or to eliminate.

How is this possible ?

The fact that our planet has an atmosphere and owns great masses of water is not only an apparent precondition for the development of life in general. It is also responsible for the circulation of almost every earthly material.

The hydrological cycle and the exchange of air masses spread plenty of substances all over the surface of our planet. Small particles, washed out from the upper earth’s crust, are carried through the water sphere and through the atmosphere. Whereas we notice that geological activities, like volcanic eruptions, are sending materials from the deeper layers of the earth up to the surface.

A great variety of matter is circulating and is finding its way into the bodies of plants, animals and human beings, as they all drink, eat and breathe from mother earth. It’s understood that the most of the circulating substances are only of small amount. Metals, for instance, circulate only in minor traces.

Mother earth provides a great variety of material, which seems to be one of the requirements for an ultra complex biosphere with intelligent life.

Most of the substances are molecules, which is the name for combinations of atoms.

Almost all stable atoms (chemical elements) are found on earth. They are altogether a very versatile construction kit for the configuration of an endless number of organic and inorganic molecules.

Where do atoms have their origin ?

Like everything now existing in our world, the chemical elements have their history of development.

Astrophysicists speak of the **evolution of chemical elements**.

The term "evolution" was taking over from Biology. Biologists introduced this word to describe the theory how living beings have changed slowly over long periods of time.

The term "evolution" has Latin origins and simply means development.

The evolution of the chemical elements is linked to the history of the universe.

Scientists are very sure about the circumstance, that the universe has been inflating explosively for about 15 billion years. (Big Bang Theory)

Shortly before the Big Bang, all started from an unbelievable infinite tininess, which contains an infinite energy. Astrophysics speaks of a **singularity**, because it must have only one dimension.

In other words, **all began from a oneness, the elementary power**.

As Physicists know, the diversity of physical powers are vanishing under increasing temperatures. They could infer the idea of one elementary power from this effect among other indications and they are working on a theory to unite all physical phenomenon found in the world today.

This incomplete theory is called G.U.T. or Grand United Theory.

Steven Hawking, one of the world's leading astrophysicist, has written in his book "A Brief History Of Time" about the idea of an elementary power

I'm not able to quote from his book in English, but I can quote from the German issue, which I only own.

He is postulating there: (first in German)

„Nun dehnte sich diese Urkraft **im Urknall** schlagartig aus und dabei **entstanden in schneller Folge** eine ganze Palette von **Teilchen und mit ihnen Raum und Zeit**.“

I translate:

"Now the elementary power was expanding during the Big Bang abruptly and thereby a good deal of particles emerged in fast sequences and with them space and time"

Steven Hawking describes this theory also in his book "*Black Holes and Baby Universes and Other Essays*".

This book contains a lecture, given by him at the 300 Years of Gravity conference, held in Cambridge in June 1987.

He said, "When universe was only a single point, like the North Pole it contained nothing.

Yet there are now ten-to-the-eightieth particles in that part of the universe we can observe. Where do all this particles come from?

The answer is that relativity and quantum mechanics allow matter to be created in the form of particles/ anti-particle pairs out of energy.

Everything in the universe is scattering with high speed and this process continues. Ever since Edwin Hubble discovered in the nineteen twenties that galaxies are drifting apart, we know that the universe is expanding, and now we have the curious knowledge, it occurs with increasing speed !

The particles emerged in the young universe, organized themselves to the components of matter (i.e. protons, neutrons and electrons - described in a very simple way) and in a next step, they formed huge masses of hydrogen atoms. The hydrogen atom is the most simple atom, consisting of one proton and one neutron in the nucleus and one electron in the shell.

While the universe continues to extend, the hydrogen atoms were coming closer together by the reason of the influence of gravity and they were forming clouds. (Gravity is a comparatively weak power, but everything, even light, underlies the attraction between everything.)

Those clouds of hydrogen were growing and growing and finally became huge rotating galaxies with millions of shiny luminaries, which we call stars. The growing of stars from hydrogen clouds to hot and glaring balls, is a continuing process and can still be observed. A growing ball of hydrogen heats up under his increasing mass and weight. When a young star reaches a temperature of about 20 million degrees Celsius in its core, atoms lose their structure and the electrons, the protons and the neutrons are moving now rapidly in a chaotic way. This hot condition of disorganized atoms is called plasma. Under these circumstances some protons collide and fuse. Thereby a certain amount of energy will be emitted.

This process is called nuclear fusion or thermonuclear fusion. Like a growing fire it heats up the star more and more. Protons collide, they amalgamate and set energy free. Therefore, every star is so an atomic radiator of light, heat and other radiation, like radio waves. Our sun works the same way, and we now know that all shining stars far away are actually suns. If such new and bigger protons could leave the inner space of a star they would immediately catch free electrons as partners and suddenly they would be new, heavier, material elements.

Now, how did the new variety of material elements find its way to our planet earth ?

Stars bigger than our sun may find their end in exploding as a so-called supernova. This gigantic explosion develops such a heat that it creates even more of much heavier protons and it spreads them all around. As we find that life is based on a big variety of elements, this process looks like a big pollination of cosmic areas. It provides a construction kit for life-carrying planets.

Chemical elements are atoms of different size. Under some circumstances, different atoms can stick together and constitute a molecule. The number of molecules is endless. Although all molecules are made of atoms, they show many different qualities. For example: water is a molecule consisting of two atoms of hydrogen and one atom of oxygen.

The carbon atom, with its abundance of possibilities in building different molecules, is the elementary component of life.

When we look back, the appearance of life is a result of the evolution of matter.

The evolution of matter and the evolution of life can be subsumed as the evolution of the universe.

Evolution ranges from a mysterious elementary power to an unbelievably big space-time entity with life-carrying worlds. (Up to now we know only one world is alive, our planet Earth) In the face of the growing assessment by physicists that all material elements come from an elementary energy, we are confronted with the fundamental statement:

ALL is one and the universe is **an only energy happening.**

The basic law of energy is that **energy is constant.**

Energy can not be destroyed or created. Energy is.

We only are able to release energy from matter, deflect it, or transform it.

Energy can change it's form, can flow from here to there, but it always remains !

It never gets lost in the end !

According to this, the universe is forever and in permanent transformation.

But on the other hand, **the universe is expanding with even increasing speed !**

What kind of future can we expect for the universe ?

Does this space-time entity change into something unexplainable ?

Does the universe have more dimensions which are above the abilities of our senses ? Is our Universe connected to parallel universes, maybe by black holes ?

All these questions are the subject of investigations in the field of physical astronomy and they are still open-ended.

Conclusions and general remarks: **Everything has become**

All what we are and all what we can find in the universe is the solution of a process of becoming in togetherness. In other words: **we notice unity and evolution.**

All is one – everything is part of the universe and in permanent interaction and all material things are assembled. This can be considered now as an established fact.

Quantum physics, especially, delivers some remarkable hints to the unity of all.

A permanent process of becoming is the formation of the universe since its beginning. This was hardly recognized in earlier times. The first ones to find signs of a permanent change were biologists in the 19th century.

First of all, the famous Charles Darwin, who claimed that living beings alter through longer periods of time. Already in the early 20th century physicists were finding out that all material structures are subject of permanent decay (entropy).

Therefore they predicted an end of the universe in numb coldness; the steady decrease of energy (warmth and light) in an always expanding space. I suppose, this process is a process of conversion, because according to the theory of relative space, time and energy are linked tightly together and have their origin in the big bang.

Mankind has made great progress in understanding the universe, but there are a lot of mysteries left. More than that, some new questions appear which shows us that we know much less than expected. This is due to the detection of dark matter and dark energy.

Some scientists say that about 90% of the universe is filled with it and they have no idea what it is. Dark matter and dark energy do not reflect or emit any light, so it is invisible.

But cosmologists have found that there is a great influence of a gravity in many dark parts of the universe. Therefore they postulated that there exists a dark form of matter and energy, especially between the arms of galaxies.

Many scientists are speaking now of a global process of evolution in the universe.

But we have not found yet a physical law that describes this process and we have no profound idea about the future. This is the situation, despite some well proven theories like quantum mechanics and relativity. There is a hidden power behind everything in the universe and it is the biggest influence to visible matter and energy.

We know a lot about energy in its visible form. So quantum mechanics tells us that energy is formed in very, very small packages and **they all have very precisely the same dimension !**

And in the world of atomic particles, we are losing the possible identification of particles in space and time. Scientists are speaking of **the uncertainty principle**. It is not possible to calculate a point in space and point in time together for atomic particles. You only get one result, either in space or in time. Therefore it is not possible to know what is really going on at the level of atomic and subatomic particles. You can get only statistical results, which were showing clear directions the more incidents were executed and recorded. Why is it this way ?

Erwin Schrödinger, the famous late Austrian Physicist and Nobel prize winner, said that nobody can understand Quantum Mechanics.

I suppose, the mystery of Quantum Mechanics lies probably in the field of time.

The German physician and also Nobel prize winner Werner Heisenberg remembered that he had a moment of enlightenment, when he found out that energy is constant in time.

(This is remarkable, because he learned this law of energy before - during his academic studies – but he probably didn't expect to find this aspect in his idea of quantum physics)

When we accept that we only understand what is part of a chronology, we can see that our logical understanding is limited, when we talk about the eternity of energy.

So anyone can see that the world with its natural laws that we can detect with our senses, is generated from infinite and chaotic energy permanently.

(Let me fill in this sentence by an unknown wise man: We don't understand chaos, but it works !)

Physicists are speaking of energy conservation.

In clearer words: Order is based on chaos.

Many scientists speak of Self-Organization. This term seems to be a neutral way to leave out religious and philosophical concepts. But on the other hand, it has great fundamental relevance for every kind of reflection on the subject of reality.

Even though our knowledge about the world has grown enormously, scientists find many new questions. So, asking about the future of the universe, the answer is still open. Sure, scientists speculate over this problem, but the hope of a complete understanding of cosmic activities has decreased now, especially since dark energy and dark matter have been discovered.

We now recognize while looking at the universe with its tremendous dimensions and on the other hand, at the complexity of life on earth and especially at the human brain, that we are limited beings. We ourselves are more than we understand!

By the way: the sum of the universe is apparently zero !

It has to be that every little positive piece of energy has its negative counterpart. When they collide they vanish. Beyond this, the pieces of energy, the quanta are entangled. This means that a positive and a negative quantum have a fixed relationship without respect of the distance between them. So, for example, if a positive quantum is affected by any influence, the negative quantum shows the same influence in the opposite direction instantly. Although the influence affects only the positive quantum, the negative counterpart is following exactly without any delay in time ! A connection, that does not show any relativistic effects, is established in a hidden "spooky" dimension.

We all should consider that for mankind and beyond, every living being plays a reasonable part in the development of the universe. The quest for the meaning of life is now gaining more

importance and is becoming more illustrative in answers recognizing the global evolutionary process.

First of all, the meaning of life is obviously: live and survive !

And that involves: solve your problems; learn and develop yourself !

The result is adaptation to some inevitable circumstances and development of physical and mental abilities, in order to have more chances to survive and more quality of daily life.

It is remarkable that the development of mental competence of human beings is obviously connected to the development of communication in speech and writing in groups and tribes.

Everything is part of a common evolution, even the mental sphere of living beings. But I have to point at the circumstance that intelligence is an individual and a collective phenomenon ! You don't need academic studies to maintain this. It's an understood truth – a first hand experience.

Mental capacities are not only a product of a biological hardware, they are dependent upon common knowledge and communication !

Individual intelligence is obviously dependent upon membership in groups and tribes and their common status of mental evolution.

Intellectual abilities are not only based on the inherited condition of a brain, they are also a product of experiences and knowledge, which are gained personally or by communication from other group members. Individual intelligence is apparently very much depending on the membership to a group. Being part of a group with no ability to read or write, you certainly find intellectual deficits in all their members.

Now in the age of worldwide communication, the number of people is rapidly growing, from which we can learn. The experiences of every member of a group are flowing into a common pool of knowledge. The human race is therefore working permanently on increasing its intellectual abilities. In other words, an intellectual sphere is growing with increasing speed due to technical developments like phones, radio, TV, computers, and the internet. And the eased conditions of travelling are also very helpful for the learning process of mankind.

Therefore we can say “living means learning, in a mental and physical way” with and without awareness.

(Not only our brain is improving steadily, also our body is always learning (like the muscles and our immune system.)

All living beings can learn!

From the tiny microbe up to the big forms of life, they are all able to learn.

This is another strong argument for the presumption, that

the universe has a spiritual side.

Some other important things in our life, like **“love, lust, and suffering”** are consequences of being a living learning system in the space-time structure we call the universe.

Another effect from the unity of all things in the universe and their learning way of evolution: That by trying to improve our own existence, we normally do not observe that we are also improving our community.

Let me give you an example:

A farmer tries to support his family and is trying to make sure that he earns more from his work than they need. By selling a big part of his crop to other people, he and his family can buy some goods like clothes, machines, books, and a lot more. First his efforts are only motivated by personal interests. On the other hand, he ensures other people work on other fields of requirement. So the farmer is supporting development in other sectors of human life because he is able to feed more people besides his own family.

Even many people today do not think over this effect of their own work.

Sure, there are possibilities in human behaviour, which have a negative effect on the human community. First of all, there is war and violence. But on the other hand, peaceful collaboration is winning in the end, because it develops welfare and knowledge.

“A man can do what he wants, but he cannot want what he wants !”

said **Arthur Schopenhauer**, a famous German Philosopher.

I agree and say: our personal will is in great part influenced by the universal will of the emerging universe.

Apparently, it's essential to harmonize individual and common targets, like the instruments in an orchestra.

No living being can exist without its multiple connections to the biosphere and to the universe. And everything in the universe has emerged from a starting point, the big bang. It is plain to see that we have an instinctive ability for the love and affection to our natural environment and our fellow creatures. Millions of poems and songs tell us about this. I find that this shows us the instinctive interaction of human individuals with the unity of everything.

On the other hand, life was always insecure and full of risks. To maintain himself, man had to struggle and fight during long periods of early history. And so he learned to use his brain as a weapon.

With the extension of his intellectual capacities man also developed some mean strategies in thinking. A new level of badness came in the world following the development of mind. Looking at the world of today, we see the human race has become the leading species and is learning now that violence and threat are not helpful to solve the problems of to-day.

At this point, my essay on unity and development of our world is ending.

I don't have the authority of an academic degree in this field of science – I'm just an amateur with a great hunger for knowledge. I find in my private studies that there are not many professional scientists and philosophers to-day who try to formulate an overall look on our reality with some side glances at religious and philosophical interpretations.

I think it's so, because you have to put together knowledge from many different knowledge domains. An academic study on the field of describing the world as a whole does not exist yet. So only a few capable thinkers are writing on this subject. Many natural scientists hold off from valuations of religious and philosophical statements due to a fundamental law that says they can only talk about things you can weigh and measure. But on the other hand there are scientists who tell in our world there is no God. But looking at those people, you will find that their look on reality is mostly narrow and limited on their domain.

I find they are not convincing me at all.

This is the reason why I will describe the scientific method.

The main thing is that scientists need to separate into parts. By trying to get an answer they need to always put some things aside to minimize influences.

(Read at wikipedia on Occam's Razor)

For instance, when analyzing metabolic activities in a human body, you can get answers on some particular processes and you may describe singular chemical activities with a formula, but you cannot describe all the metabolic activities as a whole. It is simply not possible, because of it's immensity. You cannot explain from recognized details in a body why organisms are working in a holistic way and why they even exist. So nobody can conclude from discrete chemical processes as to a reason why organisms try to keep themselves alive.

We have also no natural scientific explanation for the way we can move an arm with our will.

We surely know some details about it, but it's more or less a mystery how a thought is becoming a real activity. There is also no reasonable idea found yet why pills without an active substance can help some patients. Every clinical trial shows this effect with a rate by minimum of about 20 percent !

Many people have a sensation for what you can call the spiritual sphere of the universe, or maybe the cosmic consciousness.

Nature science is always on that side of knowledge where they can weigh, measure and calculate things. But there are borders, where scientists were finding themselves suddenly at the end of their opportunities. In the light of our human limitations and of our inescapable death, and also due to the now detected infinities and immensities, we need orientation for our mind and heart.

In the same measure as nature scientists refrained from religious and philosophical conclusions, representatives of denominations and humanistic science didn't comment on nature scientific results. So it is not really a surprise that much of the philosophical and religious ideas of to-day are a bit antiquated and slightly naive. So, superstition and charlatany are widespread even among educated persons.

I think the time has come to discuss the results from nature science in a philosophical and religious context in an open and free way. I believe this is a very important subject, especially in the common education community. The overcoming of the gap, between nature sciences and Religion and philosophy, is possibly more than ever urgently needed.

In this context, a strong atheistic movement has been developed. I think that this is not a totally wrong way of thinking about the world, but I believe it's a very restricted and unsatisfactory path of looking at reality.

I think there are some historical reasons for the expansion of atheism. First of all, science needed to come out of the reach of paternalism of the church. Through the Middle Ages, the church, especially the Roman Catholic Church, claimed the supreme authority in the fields of all science. But as some results did not correspond to their religious conceptions, they were after those disturbing scientists and punished them, like the famous Galileo. Atheism can not deliver a reasonable idea, why there is anything at all.

On the other hand, I'm certain on this, it can not deliver the emotional powers for our way into the future. If there is only a universe by accident with no final goal, inequities and endeavours of the individual life would have no meaning. Only the thought of participating on a global sense in the universe will help us to accept our personal life and deliver the devotion to higher goals.

Atheism is often declared as a science-based idea and it also often comes along with many disparaging attacks on every religious form. The German philosopher Karl Marx, one of the originators of the idea of socialism, was convinced that only atheism can free people's minds. He said: Religion is opium for the people.

But I must say, Atheism can not be seen as proofed by science. In my opinion Atheism is also a belief, because it has no final knowledge. It's a kind of No-God belief, and has no scientific base. I admit that the history of Religion is full of despicable unjustness.

But modern history tells us that atheistic leaders are not better. Some communists, like Stalin and Pol Pot, were also monsters. Therefore, I say, I need not condemn Religion because of a historic guilt. But on the other hand, a lot of crimes were done under the name of Christianity. I think that no religion or philosophy is completely wrong.

I must admit, I consider myself as a Christian, but I really dislike the dictatorial leadership especially of the Roman Catholic church. This is not the right character of a church in the name of Jesus, who was a symbol of love and sympathy. I consider that open discussions on every subject of our life, would be the most helpful way for our inquiring minds.

Beside this, I think everything, even religion and philosophy, underlies the process of evolution. And it's clear to me that religions have to make some great steps forward to reach the level of the 20th century.

Now I want to point out a man of distinction, who was a great scientific author and TV-Producer in Germany. He had the special talent of bringing nature science into a relationship with our daily life, with religion and philosophy.

He also can be seen as one of the earliest evolutionary philosophers.

The man is **Hoimar von Ditfurth (1921 – 1989).**

He guided a lot of people into the field of a general scientific overlook at the universe.

His competence on the whole spectrum of knowledge was really outstanding. He influenced me and many others very deeply. Sure, he was a man of the seventies and eighties and science has delivered a lot more cognition since then, but his work is not really obsolete.

I will say, his books are still able to fascinate you. So he changed my thinking completely.

I can comment this with the word: he told me that there is no normality, everything is part of an almost unthinkable process named evolution of the universe.

I have to say, I do not follow all of his conclusions, but most of them are very convincing.

There is a more informative website about him on the internet: www.hoimar-von-ditfurth.de

How did I discover the issue "Everything Is One"?

The thought of the unity of everything grew rather slowly in my mind. After reading books on Quantum Physics in 1998, I found scientific references for this idea. I also recognized that the theory of relativity was leading in this direction.

I knew before that Buddhism declares the unity of all in its doctrine. But I considered this more or less as a belief, not as a proven fact. The Dalai Lama often uses the saying: "Unity Is Duality" and it means that the unity is performing in duality.

I think he means that duality informs the two sides of everything and everything has its opposite. We can find this also in the fields of nature science: for instance, plus and minus on a scale, or plus and minus of the phenomenon energy.

When I realized that the evolution of the universe started from an expanding origin, I was suddenly and deeply convinced that there is only one thing. This one thing is not only expanding from its beginning, in a way that it becomes bigger. No, it is developing steadily and creating life.

And I could see that everything is always part of the unity.

In 2002, a close friend of mine gave me a book of the German spiritual teacher Willigis Jäger,

Who spoke as a Christian with experiences in Zen Buddhism about the unity of all in his book "Die Welle ist das Meer" (The Wave Is The Sea) He speaks of experiences in unity by doing meditation, and he pronounces a new age of religion and spirituality. Today I feel the same way, and have to agree.

Finally I have to name the great Teilhard de Chardin (1881-1955). A French Jesuit, who started in an abbey as a monk and priest, he became finally a scientist and evolutionary philosopher.

He pointed at the theological relevance of the evolutionary process. He wrote several books on this issue, but he didn't publish anything during his life. As a man of the Catholic church, he obeyed a ban of his books by the Vatican and so his thoughts remained unknown until his death. I heard about him only in the year 2002, which I regret deeply. I think his ideas on evolution and unity of the universe are very, very, significant.

Now I will close with a short look at the essence of mathematics.

Mathematics is an exact language which is able to show us connections and relations of countable and measurable phenomena. This tells us that everything is part of the unity. So mathematics is telling us, only by its pure existence: All is one !

Dear reader, I hope, you can comprehend my thoughts on the evolution of the unity.

Then I suppose, you can see the importance of this ideas for the way we live our lives.

Important books on this issue:

Hoimar von Ditfurth: Children Of The Universe / Wir sind nicht nur von dieser Welt
Im Anfang war der Wasserstoff / Der Geist fiel nicht vom Himmel

Robert Wesson: Beyond Natural Selection

Peter Kafka: Das Grundgesetz vom Aufstieg

Erwin Schrödinger: What is Life? - The Physical Aspect of the Living Cell

Steven Hawking: A Brief History Of Time / Black Holes And Baby Universes
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