A photograph of a beach with footprints in the sand. In the background, there is a blue ocean, a clear blue sky with some clouds, and a distant landmass. A black rectangular box is overlaid on the image, containing the text in yellow.

Is there a God?
1 of 4
A REASONABLE FAITH

Is there a God?

If so, what is He like?

Does He care about us?

The answer which we give to these questions will determine our philosophy of life.

No man can pass over them as if they were of no importance

The Bible does not attempt to prove the existence of God.

It assumes Gods existence and states, "The fool has said in his heart, There is NO God." (Psalm 14:1.)

This lack of scriptural proof strikes us as unusual since the entire Bible is based on the premise that there is a God.

Two possible reasons may be given for this lack of proof.

1) The idea of God was universal when the Bible was written and hence such proof was not needed.

2) The evidence in the world around us of the existence of God is so strong that only a fool would deny His existence and the Bible was not written for fools.

**However, in this age of skepticism
it has become necessary
to demonstrate that there is a God.**

**The atheist, who denies the existence of God,
will not accept the Bible as proof
so we must look to other evidence.**

**Let us consider a few reasons
for believing in a supreme being.**

CAUSE AND EFFECT.

It is evident that man and the world about him exists.

Even the atheist cannot deny reality.

But how did things come to be?

Whatever you believe about anything there are always underlying assumptions involved in that belief. **For example:-**

Someone says to you I see you are going to Peterborough by coach what time are you leaving

You reply 10 am – In your answer **you ASSUME** that the coach will arrive on time, that there will not be a strike, that there will be no floods or accidents to block the road

**You would be quite right to even say
“I not only believe that will be the time
I KNOW I will be leaving at 10am!”**

Therefore you make all your plans accordingly

Now the coach example may seem silly yet the principle applies **in almost everything** we are involved in so when we ask the big question where did the world come from we make our conclusion based on certain assumptions

Human reason will allow only **TWO** possible explanations.

Either, something has always existed, or There was a time when absolutely nothing existed.

Since we cannot conceive of **SOMETHING** coming out of **NOTHING**, our minds refuse to accept the second possibility.

What we believe about **HOW** things **BEGAN** affects every aspect of our lives and being, **WHERE** did we come from **HOW** should we behave **WHERE** are we going when we die?

To suppose that in the complete absence of power and volition NOTHING became SOMETHING seems too preposterous to be argued.

And even an Atheist will agree to that.

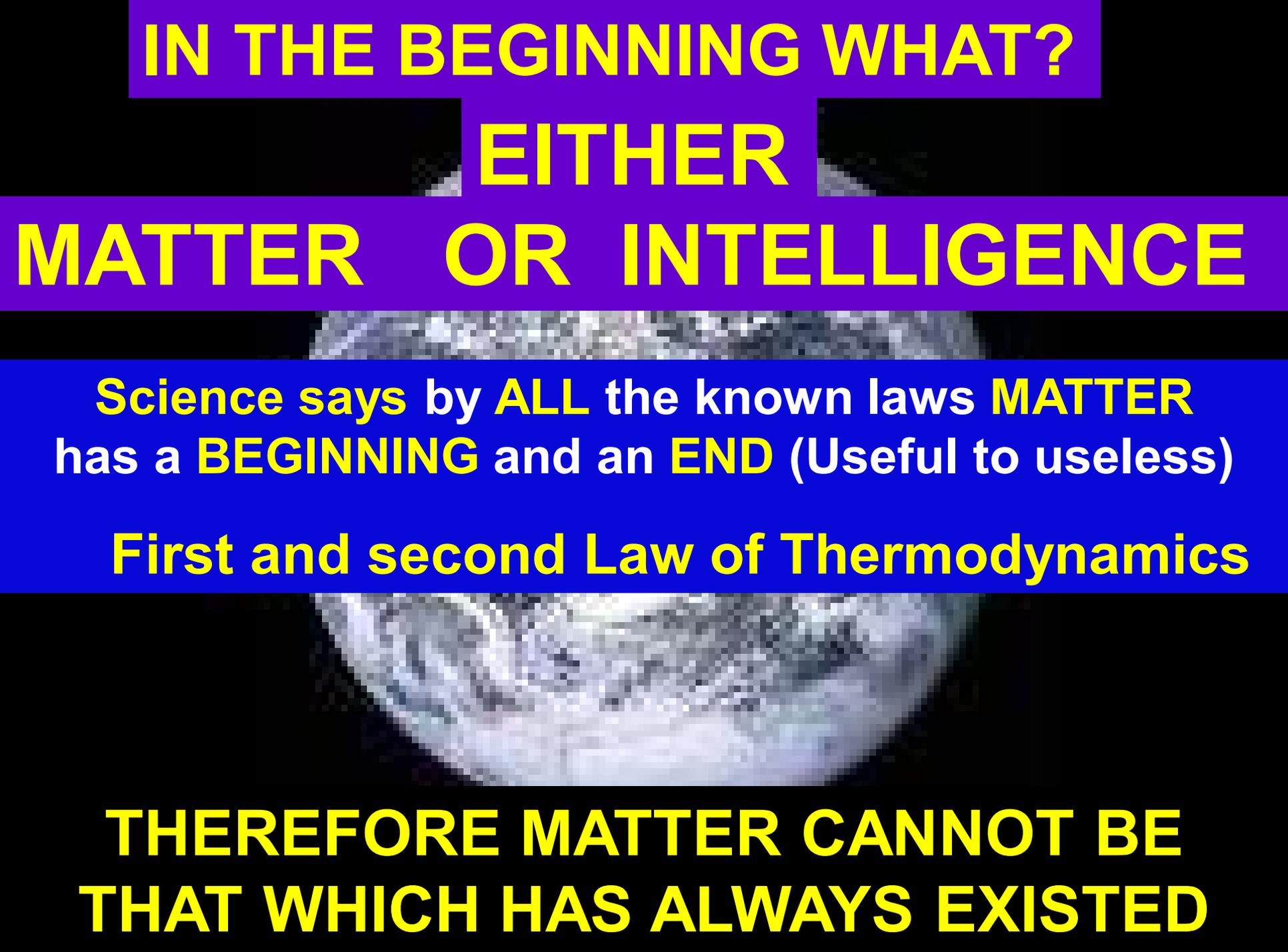
We ASSUME SOMETHING has ALWAYS existed

Has matter always existed? Is it ETERNAL and has it been transformed into its present state by the process of organic evolution?

Or is that which is ETERNAL a MIND, an INTELLIGENCE which we call GOD, Who brought all things into being by His CREATIVE POWER?.

IN THE BEGINNING WHAT?





IN THE BEGINNING WHAT?

EITHER

MATTER OR INTELLIGENCE

Science says by **ALL** the known laws **MATTER** has a **BEGINNING** and an **END** (Useful to useless)

First and second Law of Thermodynamics

**THEREFORE MATTER CANNOT BE
THAT WHICH HAS ALWAYS EXISTED**

IN THE BEGINNING WHAT?

EITHER

MATTER OR INTELLIGENCE

**IF IN THE BEGINNING - THERE WAS
INTELLIGENCE IT SEEMS REASONABLE
THAT INTELLIGENCE CAN CREATE THINGS**

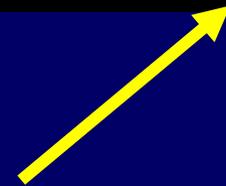
**YOU CANNOT GET BLOOD
OUT OF A STONE.**

**NO MATTER HOW MANY MILLION
YEARS YOU LEAVE IT LYING AROUND!**



In the so-called “**BIG BANG**” or **EXPLODING UNIVERSE THEORY**, unbelieving scientists have come as close as they are likely to get, to the concept **that the UNIVERSE of SPACE-TIME -MATTER-ENERGY-MOTION was created out of nothing.**

They **BELIEVE** that out of a **COSMIC EGG** even **SMALLER** than the **FULL STOP** at the end of this sentence .



The **whole universe**
came in to being at **some point in time**,
measured backward by the speed of starlight
to about **15 to 20 billion years ago**.

The **primal matter** is **supposed** to have been
something that became **hydrogen**, possibly
with some **helium** from the beginning.

And from that **HYDROGEN**
(and a relatively small amount of **helium**)
ALL the GALAXIES with their **STARS**,
PLANETS, COMETS AND ASTEROIDS
were **CREATED**.

Big Bang

Time →

10 ⁻⁴³ s	10 ⁻³⁶ s	10 ⁻³² s	10 ⁻¹² s	10 ⁻⁸ s	380,000 years	1 billion years	12 billion years
Separating (GUT Era)	GUT Era	Inflation Era	Electro-Weak Era	Particle Era	Recombination Era	Galaxy and Star Formation	Present Era

A period when all force and energy was indistinguishable, still speculative

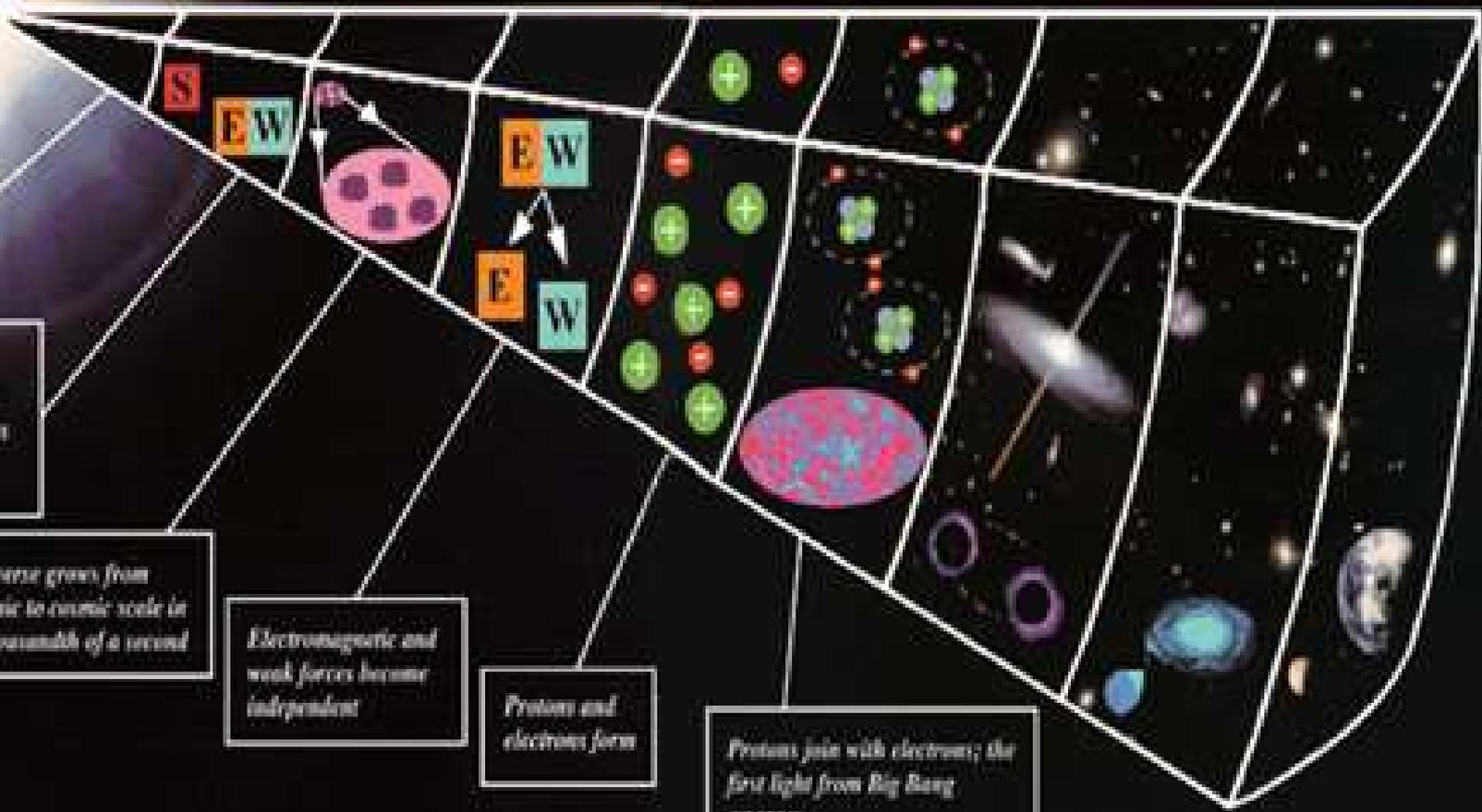
Particles responsible for strong, weak, and electromagnetic forces emerge

Universe grows from atomic to cosmic scale in a thousandth of a second

Electromagnetic and weak forces become independent

Protons and electrons form

Protons join with electrons; the first light from Big Bang emerges



The Faith of an Evolutionist

What many fail to understand about the theory of evolution, spoken and written about in such an authoritative manner by so many,

Is that it is NOT scientific fact but a religious faith, a many and varied system of belief about the origins of the universe,

This FAITH changes from year to year on a regular basis, as new ideas are proposed and old ideas are rejected.

The Faith of an Evolutionist

I would like to show you what a **“creed”** of **an evolutionist** would look like if they ever admitted to having one!.



An Evolutionist is anyone who believes that the universe created itself by random naturalistic means without the input of an omnipotent intelligent designer.

The Orion Nebula - Hubble  HUBBLESITE.org

“So you believe that evolution was the process and mechanism responsible for bringing us to where we are today and that life’s genesis was the Big Bang?”

**If you do subscribe to this belief,
then here is approximately
what you believe:-**

**“You believe that at time zero
all the potential for the 40 billion-plus
known galaxies was condensed into a
microscopic ball roughly the size of a proton.”**

“You believe that where, why, how and precisely what this undefined ball of quantum-mechanically defying anti-matter was, is irrelevant.”



“However, within this primordial incipient of the cosmos, you believe that there existed a false vacuum in which was neither hyper compressed matter, nor super dense energy, nor any recognizable substance.”

“You believe that through this super-condensed **ball of nothingness** coursed a weightless, **undefined quantum-mechanical probability framework** through which a scalar field would eventually come.



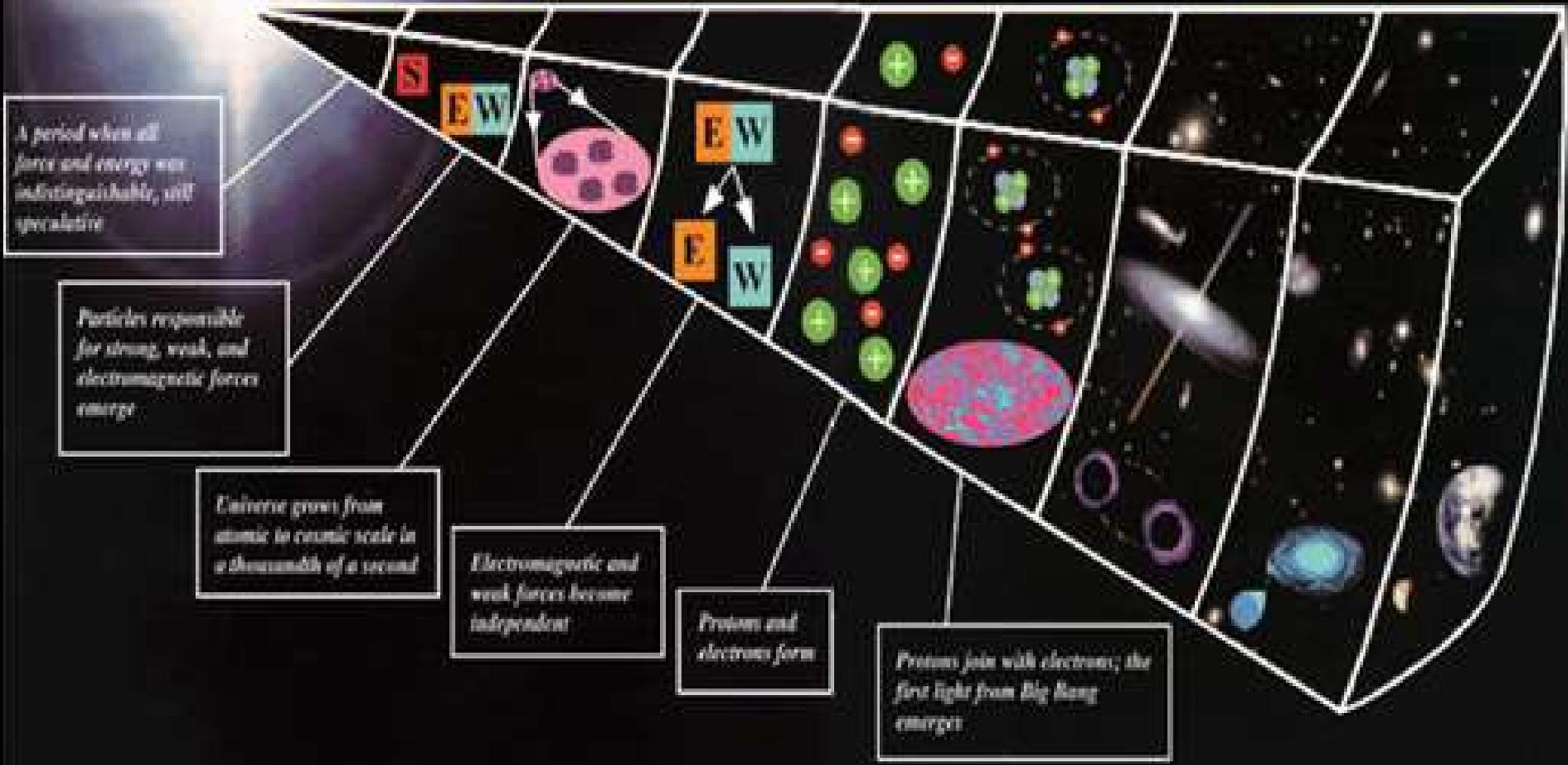
“You believe that at the sound of the Big Bang, **at the first tick, of the time- space continuum, this pinpoint of nothingness with infinite potential,**



In **LESS** than **A MILLISECOND** expanded to 15 billion-plus light-years in at **LEAST** four-dimensional time-space coordinates.”

“You believe that through this stellar process space itself expanded outward in a bewildering of pure physics and chemistry”.

10 ⁻⁴³ s	10 ⁻³⁶ s	10 ⁻³² s	10 ⁻¹² s	10 ⁻¹⁰ s	100,000 years	1 billion years	10 billion years
Separating (I) Era	GUT Era	Inflation Era	Electro-Weak Era	Particle Era	Recombination Era	Galaxy and Star Formation	Present Era



A period when all forces and energy was indistinguishable, still speculative

Particles responsible for strong, weak, and electromagnetic forces emerge

Universe grows from atomic to cosmic scale in a thousandth of a second

Electromagnetic and weak forces become independent

Protons and electrons form

Protons join with electrons; the first light from Big Bang emerges

Big Bang

Time →

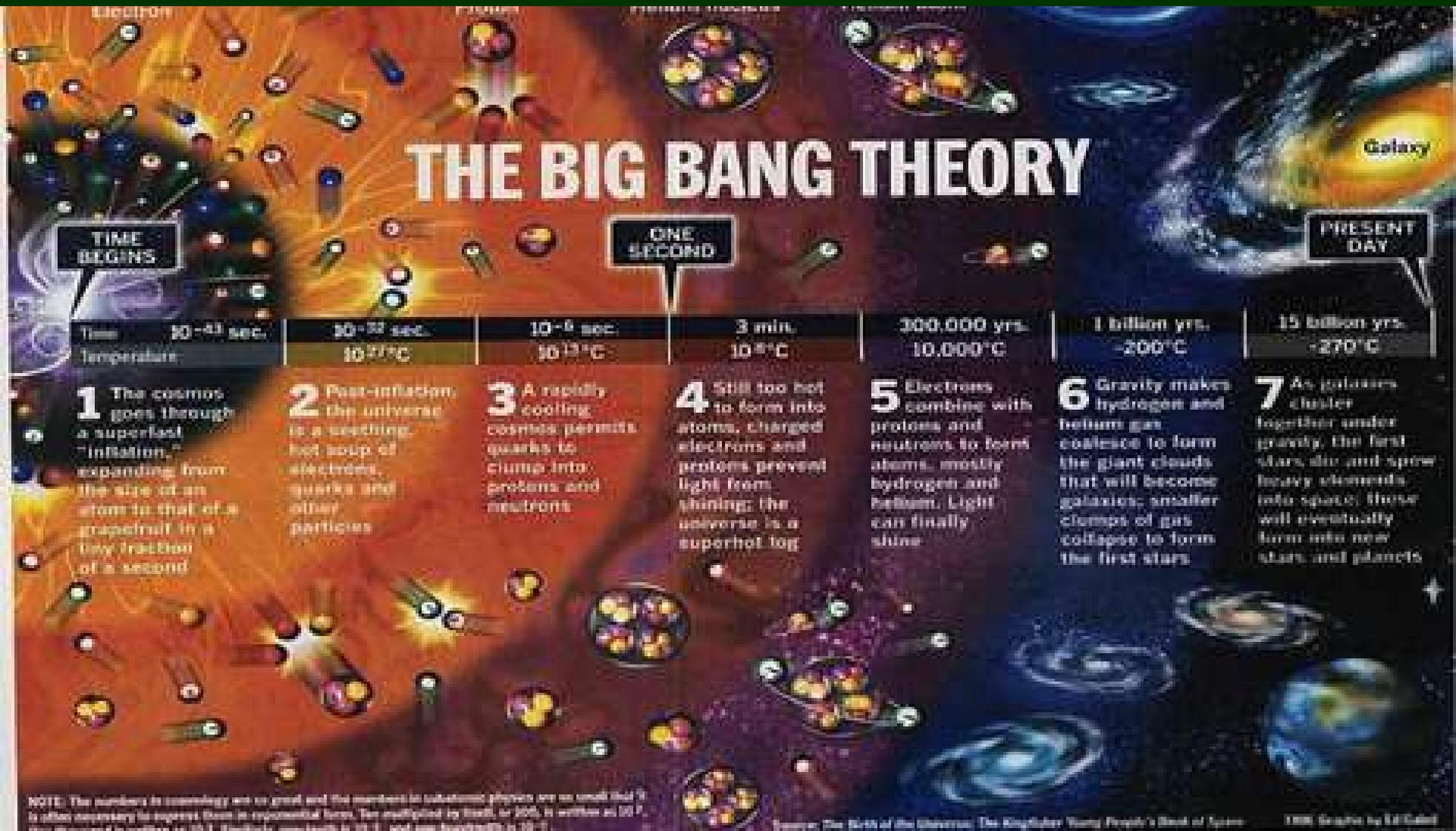
10 ⁻³² s	10 ⁻³² s	10 ⁻³² s	10 ⁻¹² s	10 ⁻¹² s	100,000 years	1 billion years	14 billion years
Separating Era	GUT Era	Inflation Era	Electro-Weak Era	Particle Era	Recombination Era	Galaxy and Star Formation	Present Era

And that in this surreal light show were unleashed such powerful distortions that, for a sub-fraction of time, the primordial anti-universe was curved to the nth degree.

electromagnetic forces emerge

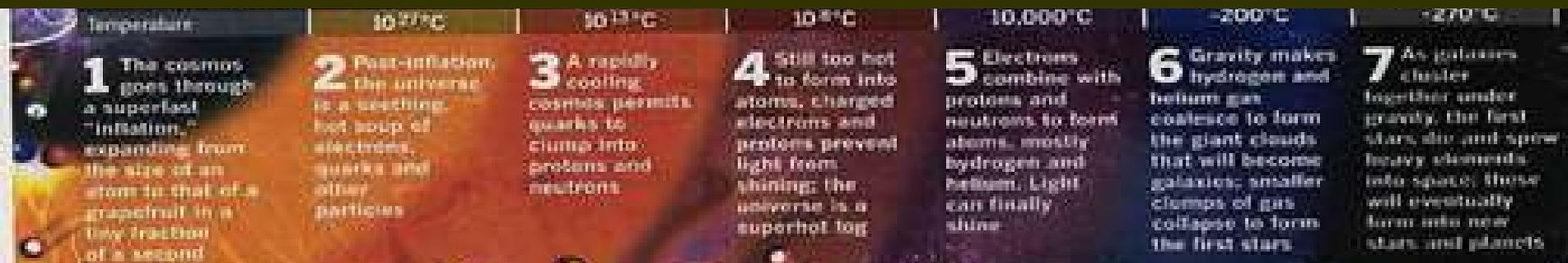
This extreme curvature, you believe, caused virtual particles to materialize from the previously undefined quantum netherworld in unfathomable quantities.

“You believe that, as these subatomic virtual particles began to anneal from the inexplicable proto-reality,

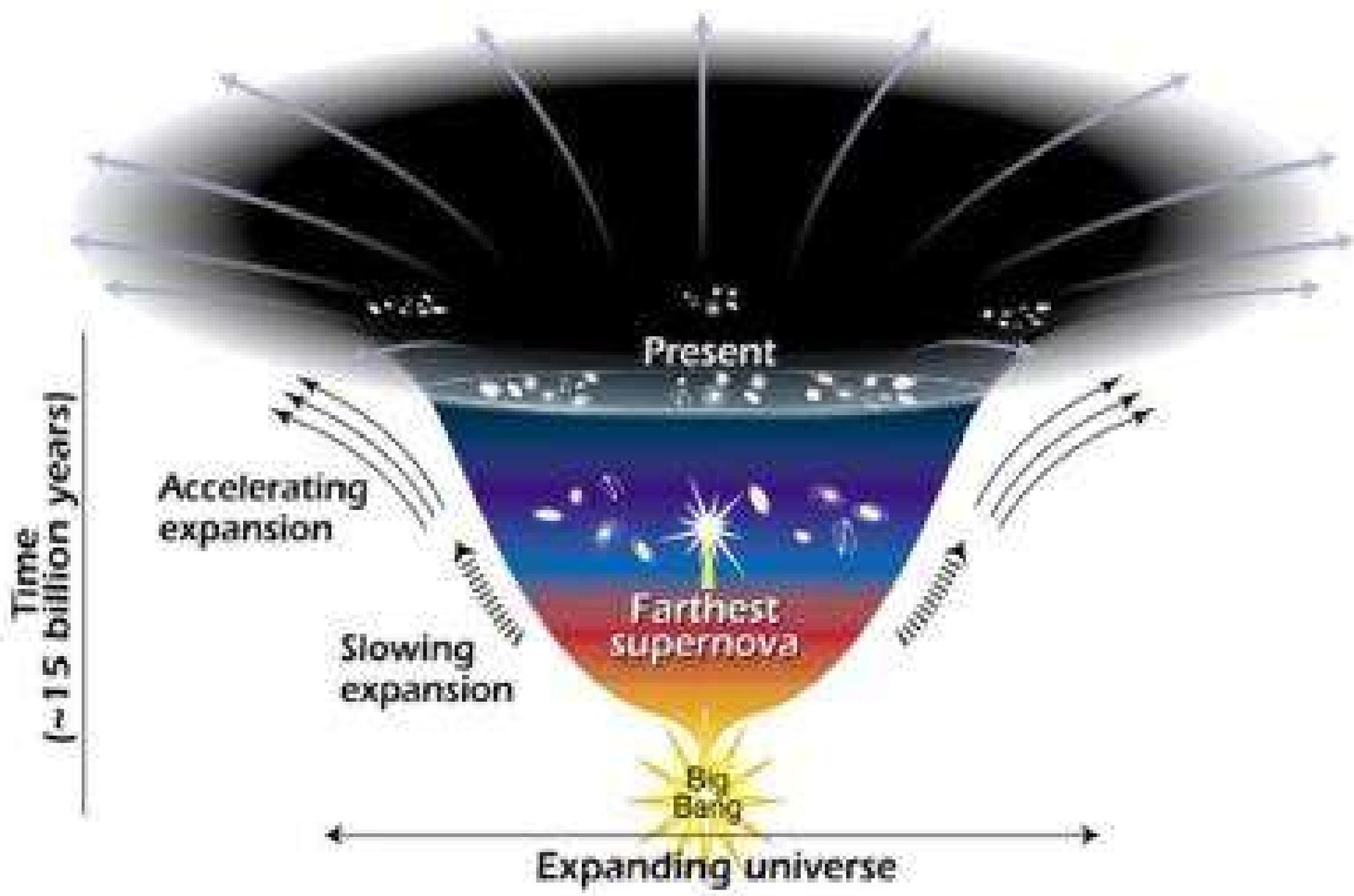


both antimatter and matter emerged into a relativistic time-space continuum. Simultaneously,

As existence and non-existence competed for the same dimension of reality, matter and antimatter began to collide and annihilate themselves,



Vanishing into the surreal ethereal vortex of the still expanding universe as mysteriously as they came.



“You believe that the only reason our universe is a reality today is because of the infinitesimal asymmetry in the macroscopic expansion of the time-space continuum giving matter the slight advantage – about 1 in a 100 million - over antimatter.

Then, before the time-space continuum clock ticked its 2nd second, amid thundering energies of paramount force,

a finite residue of tangible matter survived, and from it, you believe, the billions of galaxies formed into the known cosmos.

The person who wrote
“The faith of an evolutionist”

Is **Dr. Anstine** who once believed in evolution,
His qualifications are as follows

He received his Bachelor's degrees
in Chemistry and Biology

from Point Loma University in San Diego California
and his Ph.D. in **Organic Chemistry**
from the University of Nevada.

Following the completion of his doctorate,
he accepted a post doctoral fellowship invitation
to conduct **research in photochemistry**
at the University of California, Berkeley.

Upon completion of his fellowship,
Dr. Anstine accepted a research position
with Elan Pharmaceuticals, where he rose to
Director of Medicinal Chemistry.

Dr. Anstine left the pharmaceutical
world to become a **professor at a
liberal arts college** in Nampa, Idaho.

Professor Anstine's current research interests
are in the areas of **nano technology**
and **the synthesis of nano-scale**
Photo controllable molecular switches

PEOPLE HAVE DIFFERENT FAITHS

a. THEIST- A person who believes in God and possibly the full inspiration of the Bible,

Such a person could accept the Genesis account as being both Literal and Historic.

b. ATHEIST - Name comes from the "**Greek**" meaning "**without God**" Eph 2:12; the atheist does not believe in the existence of God and would claim that the creation account is a Jewish myth.

Most atheist's would claim to accept some form of evolution.

c. AGNOSTIC :-Title comes from the "**Greek**" meaning "**without knowledge**" from **Latin** it would mean "**ignoramus**" They would claim to be open minded on the issue of the beginning of the universe and the existence of God. **They would admit that there are things they do not know**

d. THEISTIC EVOLUTIONIST :- This is a person who believes that God created the universe by means of the evolutionary process and would claim that Genesis chapter 1 and also possibly 2-11; are **not** to be taken **literally**, but **figuratively**. **He generally attempts to reconcile the genesis account of creation to the theory of evolution.**

MILLIONS OF YEARS

THE BIBLE IS NOT TRUE! THESE ROCK LAYERS SHOW THAT THE EARTH IS MILLIONS OF YEARS OLD! YOU HAVE TO BELIEVE ME! I AM A SCIENTIST!

ROCK LAYERS

I'LL JUST ACCEPT THE MILLIONS OF YEARS AND ADD IT TO THE BIBLE!

Scientist

Theologian

There are those who claim to be
theistic evolutionists.

That is, they believe that God
used **natural properties**
of matter and the **process of evolution**
to develop **the complexity**
of the living forms we see in our world today

I agree with Dr. Duane Gish

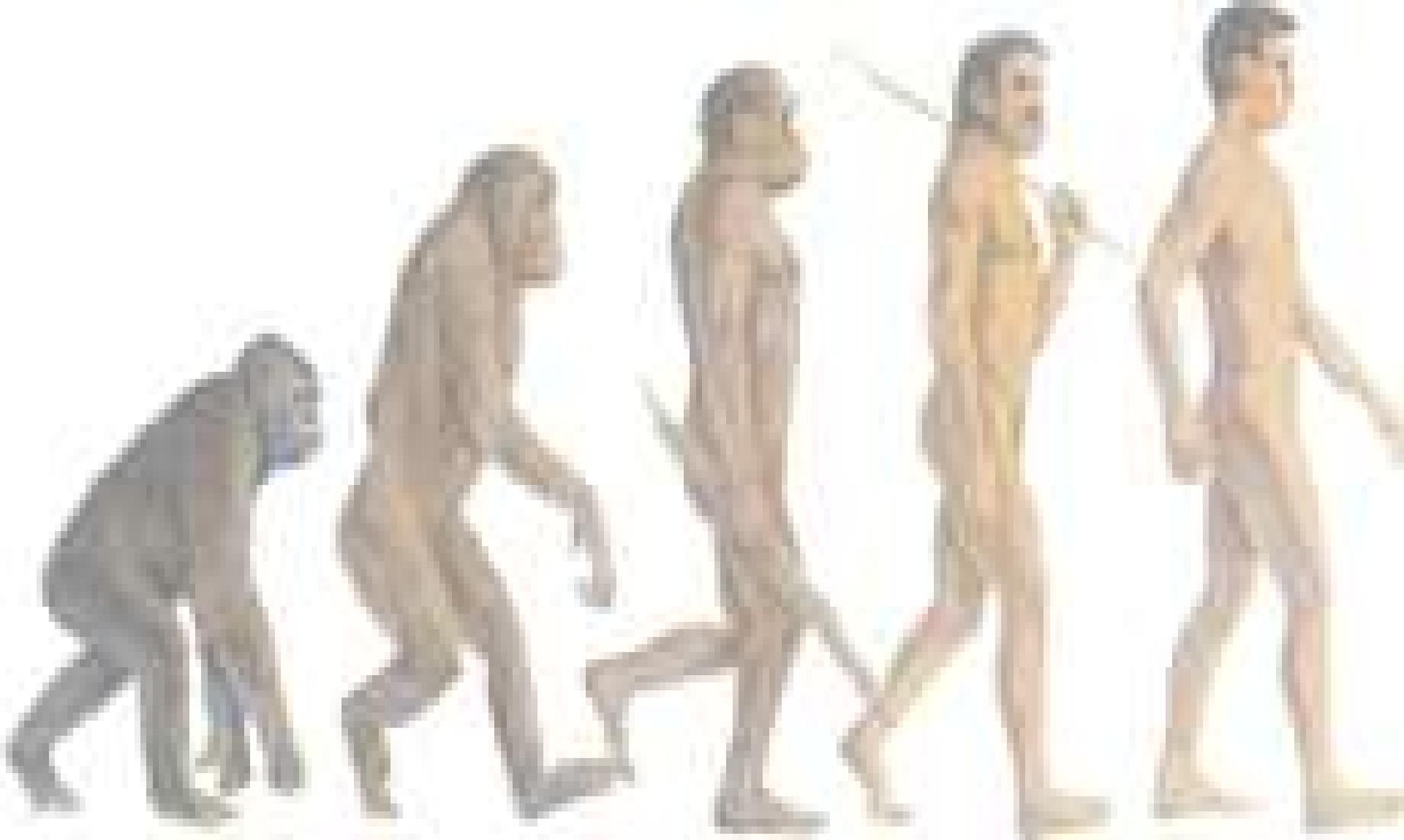
He said that theistic evolutionists
combine bad science with bad theology.

Dr. and Mrs. Duane Gish
of the Institute for Creation Research

PEOPLE HAVE DIFFERENT FAITHS

e. CHRISTIAN :-

This is a person who believes that God created the universe by means of His power would also claim that Genesis chapter 1 and 2:1-11; are to be taken literally not figuratively



“the central tenet of modern biology that all species, including humans, evolved from one simple life form

Susan Watt, BBC Newsnight, 17/3/00

Everybody believes in some form
Of Evolution from Latin – “to unroll, unfold,
change” more common usage:
‘The Organic Theory of Evolution’
whether they are **Atheists** or **Christians**

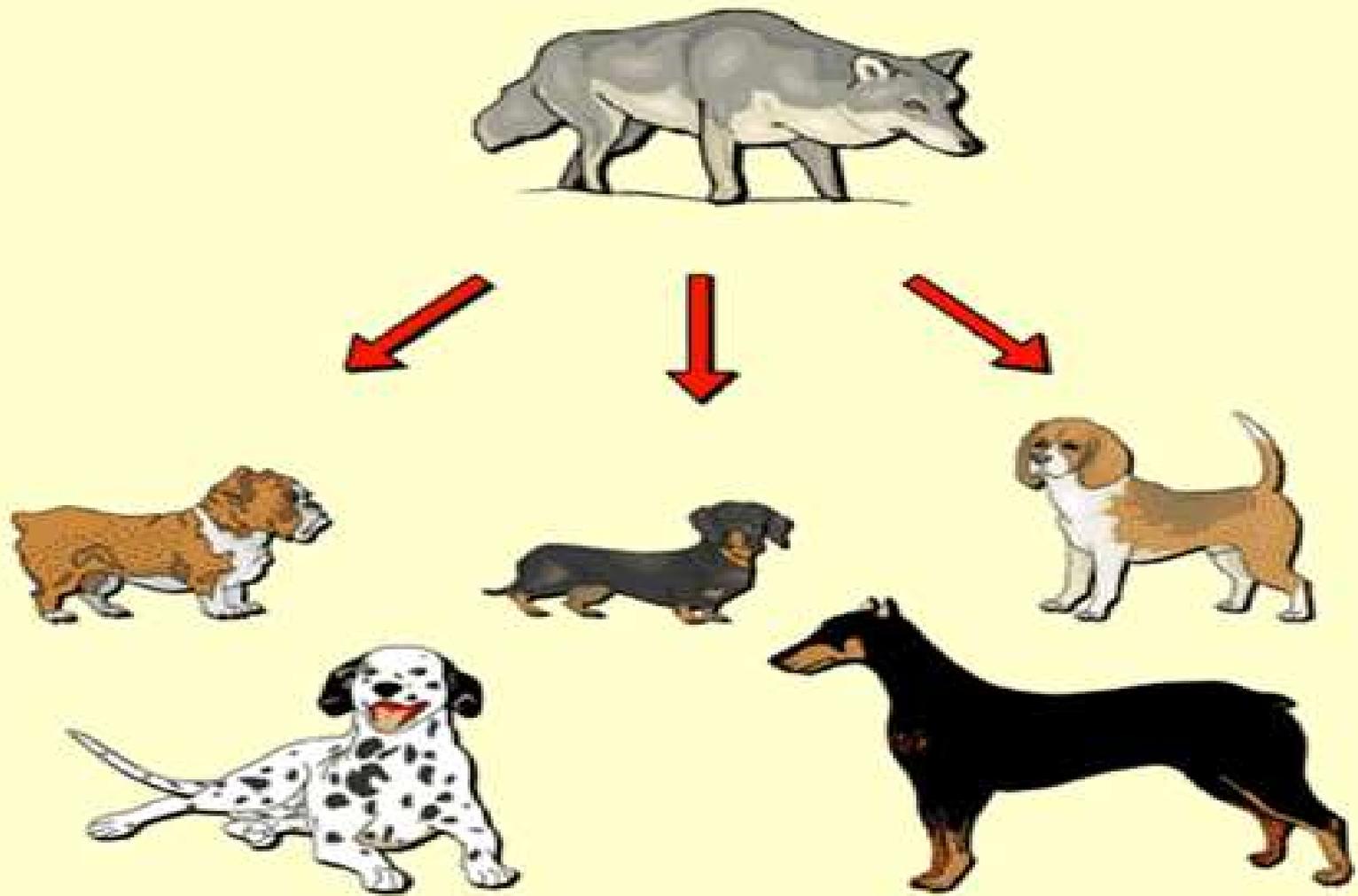
Or Macroevolution

**(the evolution of one species out of another
species, and thus from a one-celled plant
or animal to man through billions
of transitional intermediates)**

**The logical consequence of believing
macroevolution is atheism.**

humans, evolved from one simple life form

Susan Watt, *BBC Newsnight*, 17/3/00



Macroevolution v. Microevolution

Christians Do NOT believe in the evolution of one species out of another species, like a lion turning into an elephant

Rather they believe that for example from a dog species you can breed a variation as far a part as a Jack Russell and a great Dane

Microevolution is a proven fact of science.

We see it every day in the varieties of dogs and the different kinds of bills on finches, etc.

Genesis 1:21 “God created great sea-monsters and all the creatures that glide and teem in the waters in their own species, and winged birds in their own species. God saw that it was good.”

The theory of organic evolution supposes that there is no God and that life came into being by chance. Hence, one cannot believe in organic evolution and still consistently believe in God.

However, **it is axiomatic that for every effect there must first be a cause.**

**The world itself is the effect. What is the cause?
Is it Matter-or is it Mind - God?**

We know that inert matter can cause nothing unless it is acted upon by some other agency.

A ball upon a level surface will not roll unless something **causes** it to roll.

However, the nature of that which has been caused is such that we may be certain that **the first cause is Mind, or God.**

Does God Exist?



Romans 1:18-20 (NKJV)

[20] For since the creation of the world His invisible attributes are clearly seen, being understood by the things that are made, even His eternal power and Godhead, so that they are without excuse,

THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?



M31
Andromeda Galaxy



Milky Way Galaxy



M51
Whirlpool Galaxy



M33
Triangulum Galaxy



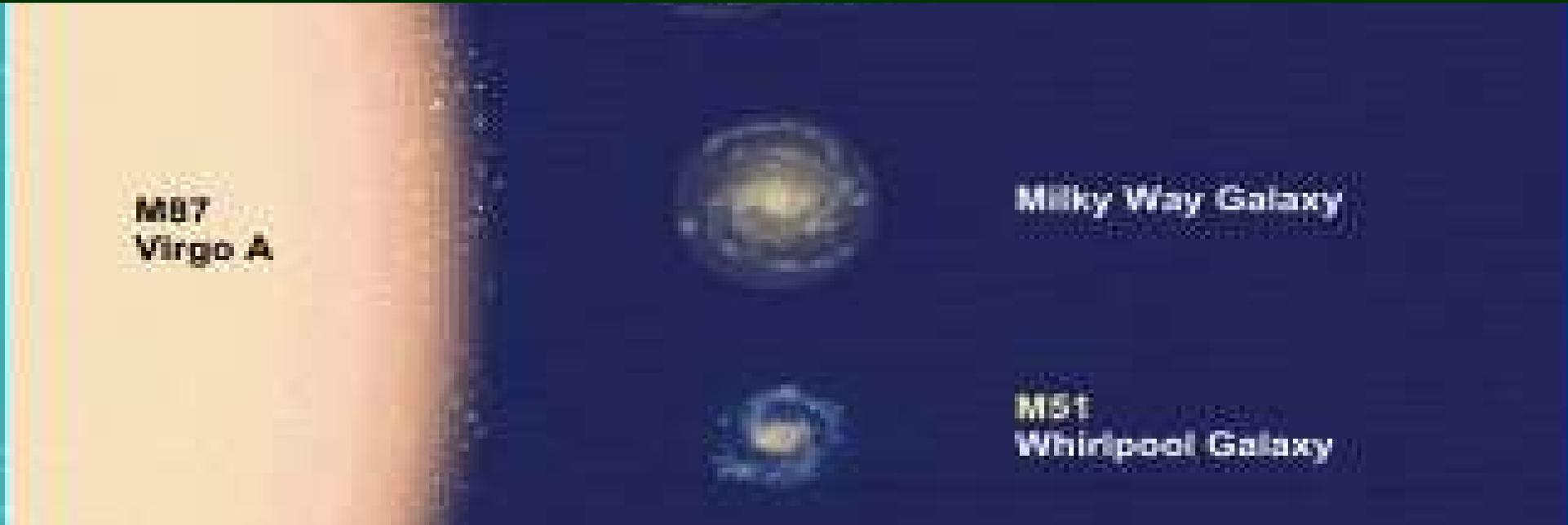
Nubecula Minor
Small Magellanic Cloud

M87
Virgo A



Galaxies come in all shapes and sizes.

The largest Local galaxy is **M31**, the Andromeda Galaxy, which is about 200,000 light years across, a diameter twice that of our own Milky Way Galaxy.



Far, far more massive than any member of the Local Cluster, though, is **M87**, a giant Elliptical Galaxy at the heart of the Virgo Cluster.

THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?

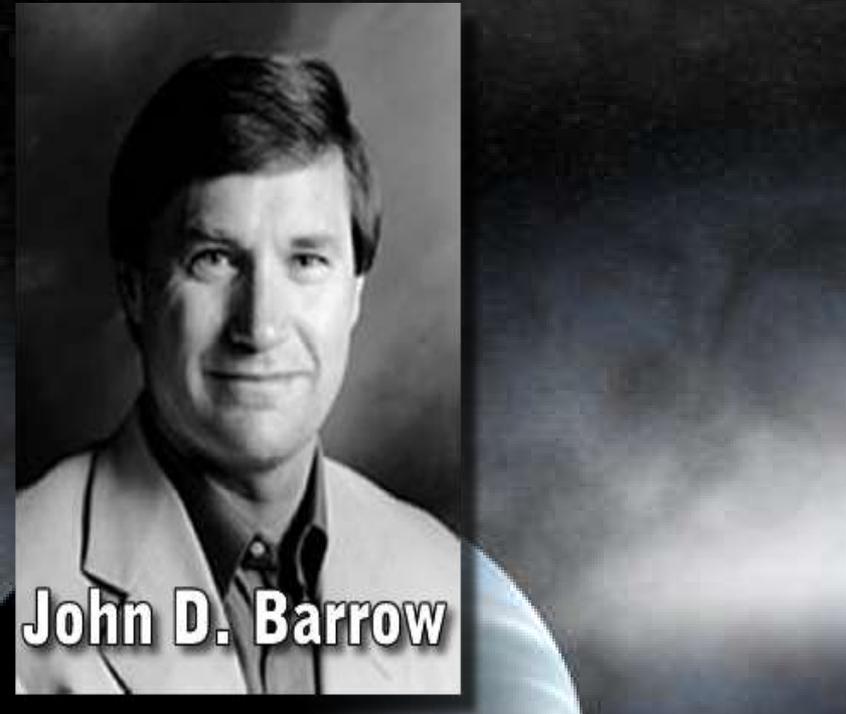


Carl Sagan
1934-1996

Did the universe always exist?

“The Cosmos is all that is or ever was or ever will be”
(Carl Sagan 1980, Cosmos, p. 4).

THE MOST REASONABLE CAUSE FOR THE MATER



**(John D. Barrow, (2000),
*The Book of Nothing:
Vacuums, Voids,
and the Latest Ideas about
the Origins of the Universe*
p. 296, (New York: Pantheon).**

**“At first, the absence
of a beginning appears
to be an advantage
to the scientific approach.
There are no awkward
starting conditions
to deduce or explain.
But this is an illusion.
We still have to explain
why the Universe took on
particular properties
its rate of expansion,
density, and so forth at
an infinite time in the past”**

**THE MOST REASONABLE CAUSE FOR
THE MATERIAL UNIVERSE?**



Energy and Matter - Laws of Thermodynamics.

The field of **thermodynamics** studies the **behaviour** of **energy** flow in natural systems. From this study, a number of physical laws have been established.

The **laws of thermodynamics** describe some of the **fundamental truths** of **thermodynamics** observed in our **Universe**.

Understanding these laws is important to students of Physical Geography because **many** of the processes studied **involve the flow of energy**.

“The 1st Law of Thermodynamics

1. Energy can be neither created nor destroyed
(conservation of energy).
2. Thus power generation processes and energy sources actually involve conversion of energy from one form to another, rather than creation of energy from nothing.

**Einstein's famous equation - $E = MC^2$:-
energy (E) is equal to matter
(M) times the square of a constant (C).**

The first law of thermodynamics is often called the Law of Conservation of Energy.

This law suggests that energy can be transferred from one system to another in many forms.

However, **it cannot be created nor destroyed.**

Thus, the **total amount of energy** available in the Universe **is constant.**

Einstein suggested that energy and matter are interchangeable. His equation also suggests that the quantity of energy and matter in the Universe is fixed.

The 2nd Law of Thermodynamics

1. Heat can never pass spontaneously from a colder to a hotter body.
2. As a result of this fact, natural processes that involve energy transfer must have one direction, and all natural processes become irreversible.

3. Thus the entropy of an isolated system always increases with time.

(Entropy is the measure of the disorder or randomness of energy and matter in a system. :-

Both energy and matter in the Universe are becoming less useful as time goes on).

Third Law of Thermodynamics

The third law of thermodynamics states that if all the **thermal motion of molecules (kinetic energy)** could be removed, a state called **absolute zero** would occur.

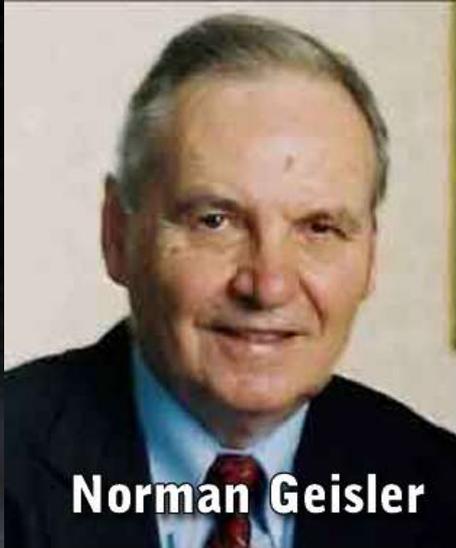
Absolute zero results in a temperature of 0 Kelvins or -273.15° Celsius. Absolute Zero = 0 Kelvins = -273.15° Celsius

The Universe will attain absolute zero when all energy and matter is randomly distributed across space.

The **current temperature** of empty space in the Universe is about **2.7 Kelvins.**”

<http://www.physicalgeography.net/fundamentals/6e.html>

THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?

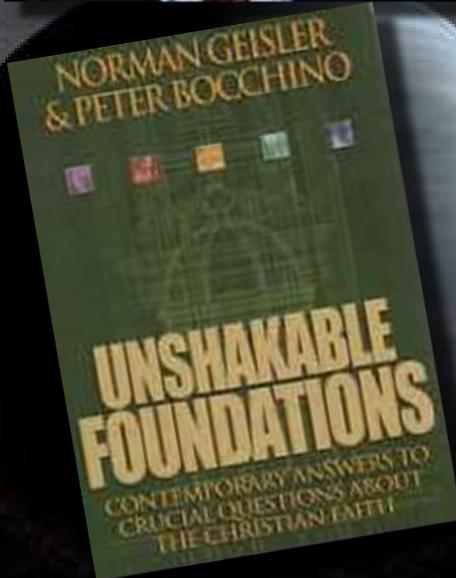


Norman Geisler

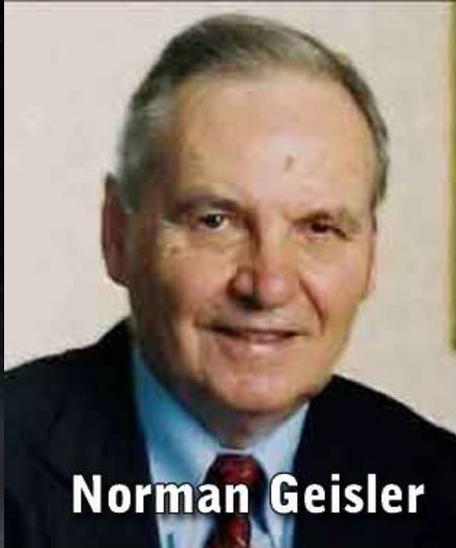
The Second Law of thermodynamics is probably the most powerful piece of legislation in the physical world. It ultimately describes every process we have ever discovered:

It is the final Court of Appeal in any dispute relating to action and procedures, whether they are naturally generated or man inspired.

It draws the conclusion that in our universe there is an overall reduction in order, a **loss of available energy** that is measured as an **increase in entropy**.



THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?



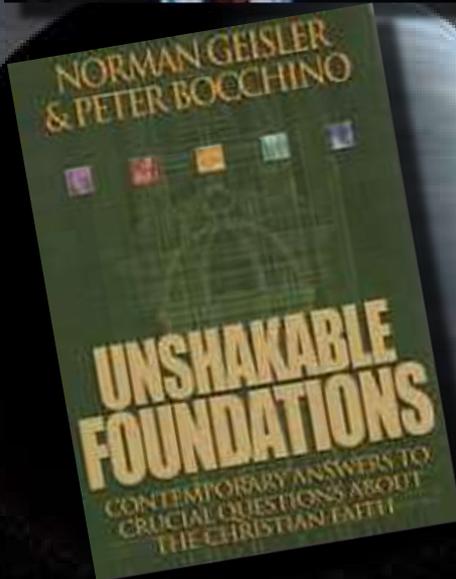
Norman Geisler

So the available stock of order is being exhausted.

This is like the dying battery of a flashlight, useful energy is being dissipated into entropy after which none remains for use...

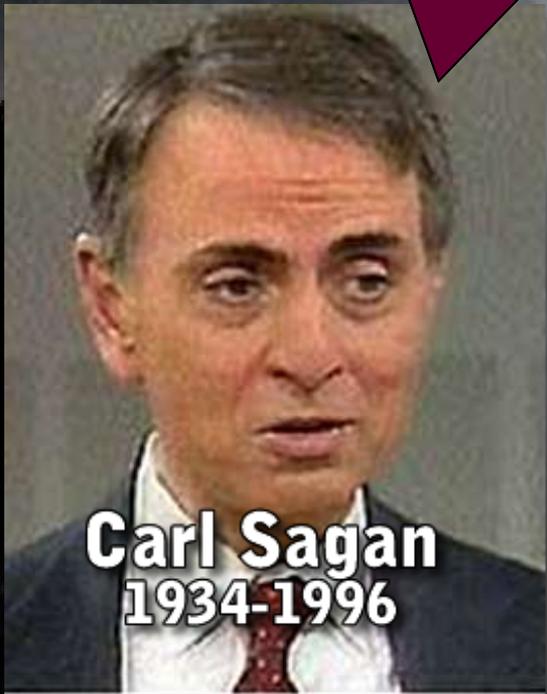
For us to live in a universe in which the Second Law of thermodynamics holds, then, it must be a universe that has a starting point, a creation.

– [Geisler, Unshakable Foundations, Bethany House, 2001, pg. 74]



THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?

“The Cosmos is all that is or ever was or ever will be”
(Carl Sagan 1980, *Cosmos*, p. 4).



Carl Sagan
1934-1996

- Did the universe always exist?
- If the universe had a beginning, then it needs a first cause.
- Did the universe self-cause itself? In order to self-cause itself it would have to not exist (to cause existence) and exist (in order to be caused) at the same time.

Therefore, this option is ruled out because it **violates** the “**Law of non-contradiction**”.

**THE MOST REASONABLE CAUSE FOR
THE MATERIAL UNIVERSE?**



The law of cause and effect states that every material effect must have an adequate cause that existed before the effect.

A healthy, rooted tree does not fall over because a fly runs into it.

An Encyclopedia is not produced by spilling ink onto a stack of paper.

These are not adequate causes.

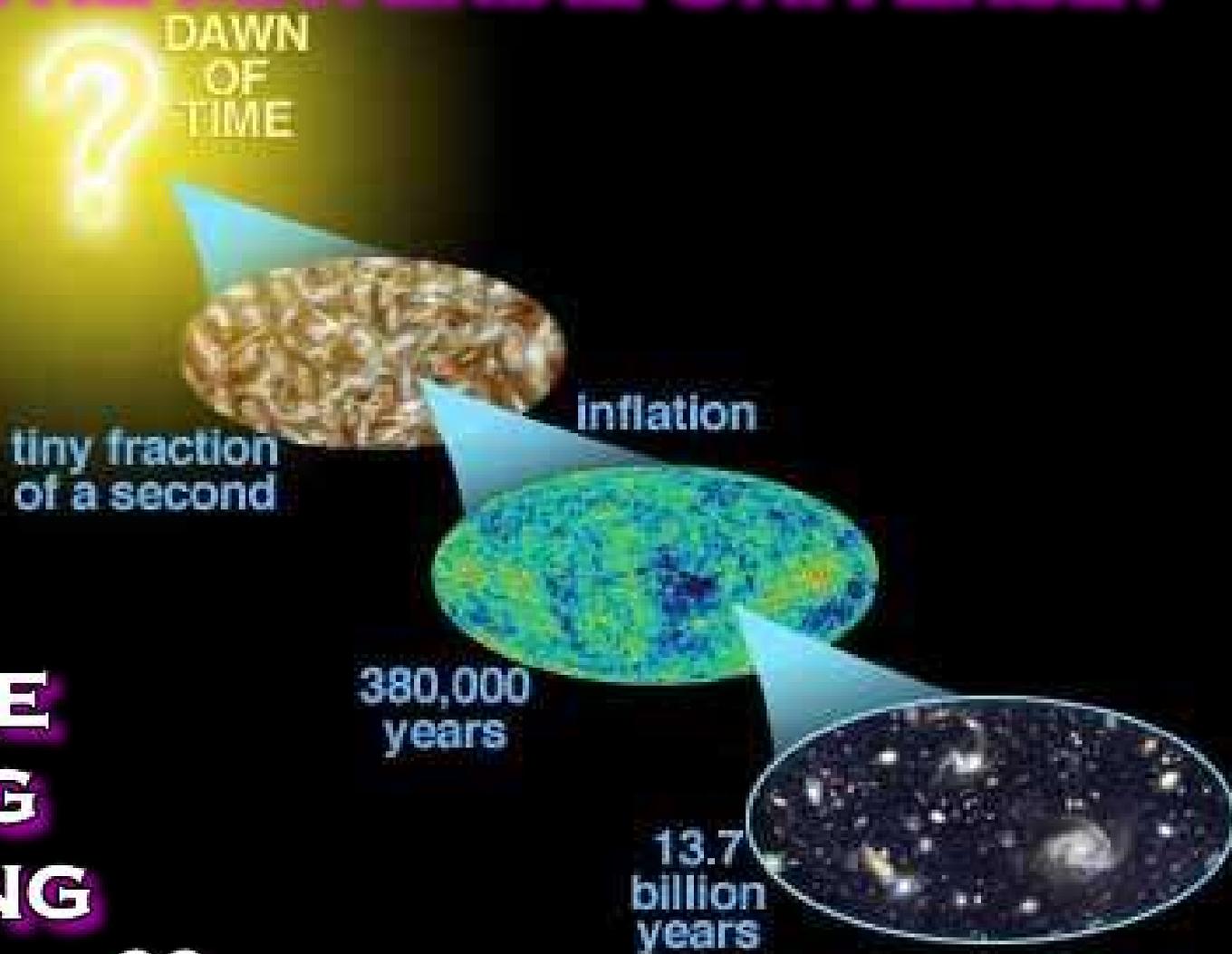
**For whatever effects we see,
we must present adequate causes.**

“If the existence of the cosmos as a whole needs to be explained, and if it CANNOT be explained by natural causes,

Then we must look to the existence and action of a supernatural cause for its explanation”

Mortimer J. Adler, How to Think about God New York: Macmillian, 1980) pg. 131

THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?



**THE
BIG
BANG
THEORY??**

THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?



**THE
BIG
BANG
THEORY??**

Genesis 1:1-3 (NKJV)

In the beginning God created the heavens and the earth. [2] The earth was without form, and void; and darkness was on the face of the deep. And the Spirit of God was hovering over the face of the waters. [3] Then God said, "Let there be light"; and there was light.

THE MOST REASONABLE CAUSE FOR THE MATERIAL UNIVERSE?



**THE
BIG
BANG
THEORY??**

Neh. 9:6 (NKJV)

**You alone are the Lord;
You have made heaven, The
heaven of heavens, with all
their host, The earth and
everything on it, The seas and
all that is in them, And You
preserve them all. The host of
heaven worships You.**

Psalm 19:1 (NKJV)

**The heavens declare the glory of God;
And the firmament shows His handiwork.**

Psalm 8:3 (NKJV)

**When I consider Your heavens,
the work of Your hands, the moon
and the stars, which YOU have ordained,**

Psalm 33:6-9 (NKJV)

**By the word of the Lord the heavens
were made, And all the host of them
by the breath of His mouth. . . .
For He spoke, and it was done;
He commanded, and it stood fast.**

Exodus 20:11 (NKJV)

For in six days the Lord made the heavens and the earth, the sea, and all that is in them, and rested the seventh day. Therefore the Lord blessed the Sabbath day and hallowed it.

THE MOST REASONABLE CAUSE FOR ORGANIZATION?



**Explosions
Cause
Disorder
- NOT
ORDER!!!**

**THE
BIG
BANG
THEORY??**

THE HOME DEPOT

ILLINOIS HOME IMPROVEMENT WAREHOUSE







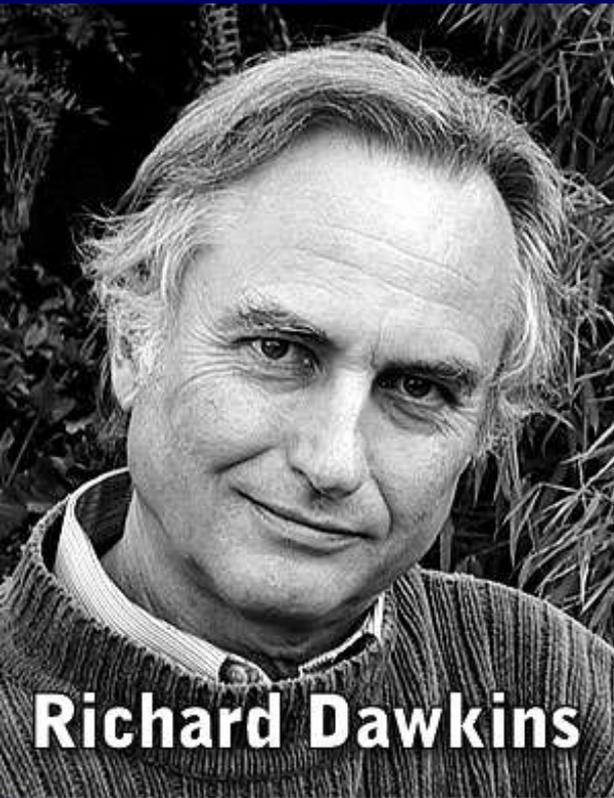
Evolution as taught -
SOMETHING FROM NOTHING
and **SIMPLE TO THE COMPLEX** goes
against every known accepted scientific law.

The law of cause and effect states that every material effect must have an adequate cause that existed before the effect.

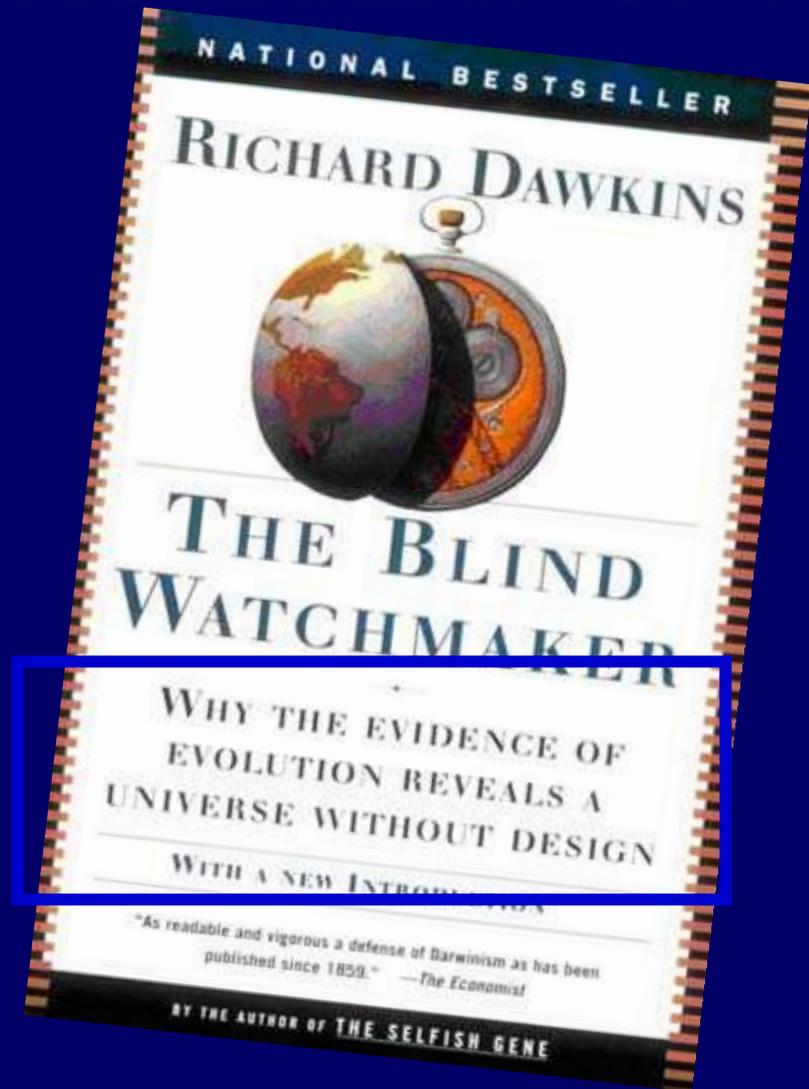


**A WATCH?
Intelligent design, or “chance?”**

THE MOST REASONABLE CAUSE FOR ORGANIZATION?

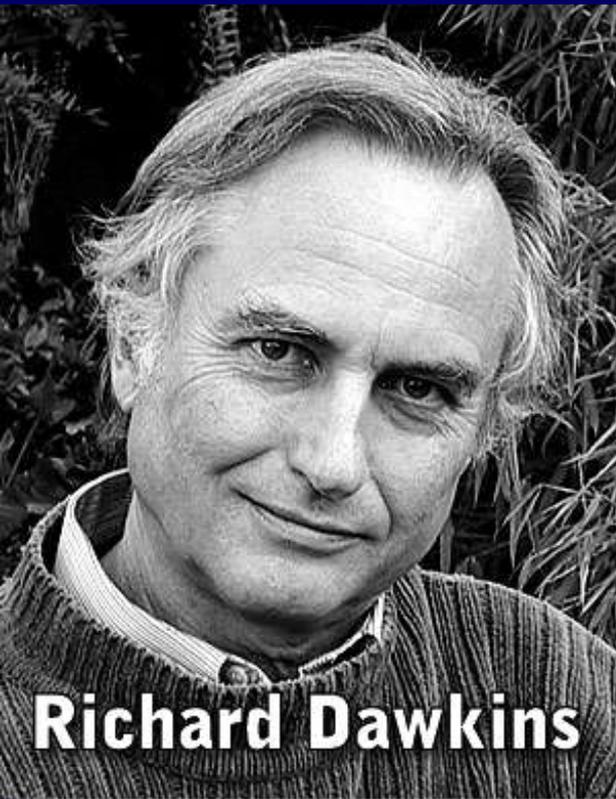


Richard Dawkins



The Blind Watchmaker: Why the Evidence of Evolution Reveals a Universe Without Design (1996) by Richard Dawkins (Norton Publishing).

THE MOST REASONABLE CAUSE FOR ORGANIZATION?

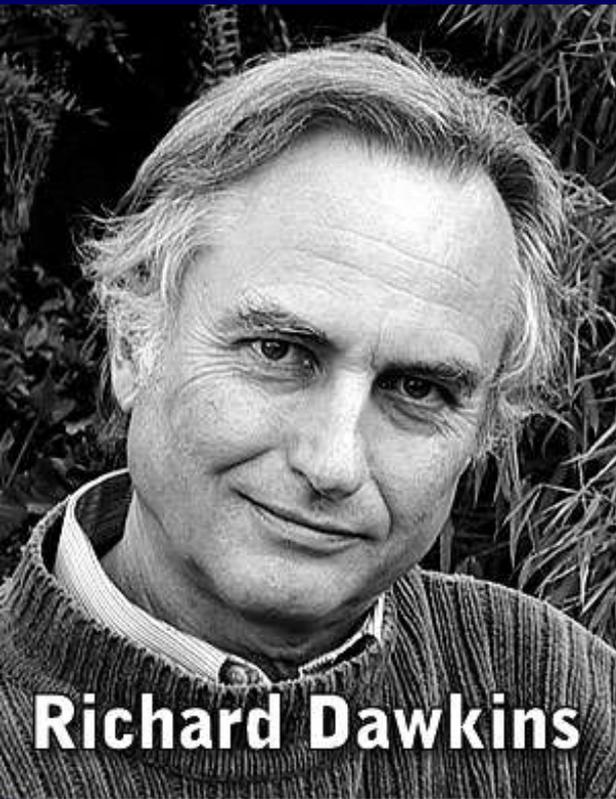


“Even the most ardent atheist concedes that design is all around us. To a Christian, the design we see all around us is totally consistent with the Bible’s explanation that God created all.

‘All appearance to the contrary, the only watchmaker in nature is the blind forces of physics, albeit deployed in a very special way. A true watchmaker has foresight: he designs his cogs and springs, and plans their interconnections, with future purpose in his mind’s eye.

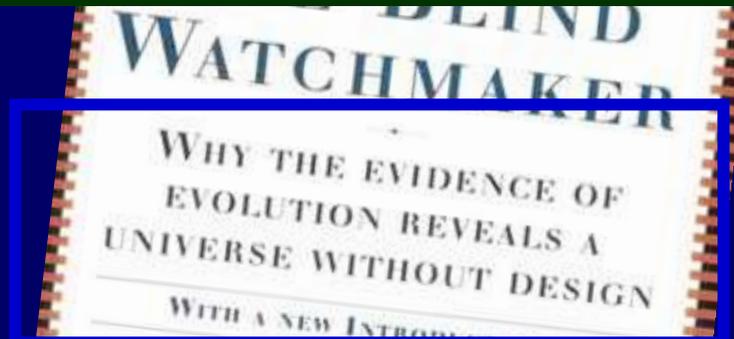
The Blind Watchmaker: Why the Evidence of Evolution Reveals a Universe Without Design (1996)
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THE MOST REASONABLE CAUSE FOR ORGANIZATION?



Richard Dawkins

‘Natural selection, the blind, unconscious, automatic process which Darwin discovered, and which we now KNOW is the explanation for the existence and apparently purposeful form of all life, has no purpose in mind



The Blind Watchmaker: Why the Evidence of Evolution Reveals a Universe Without Design (1996) by Richard Dawkins (Norton Publishing).

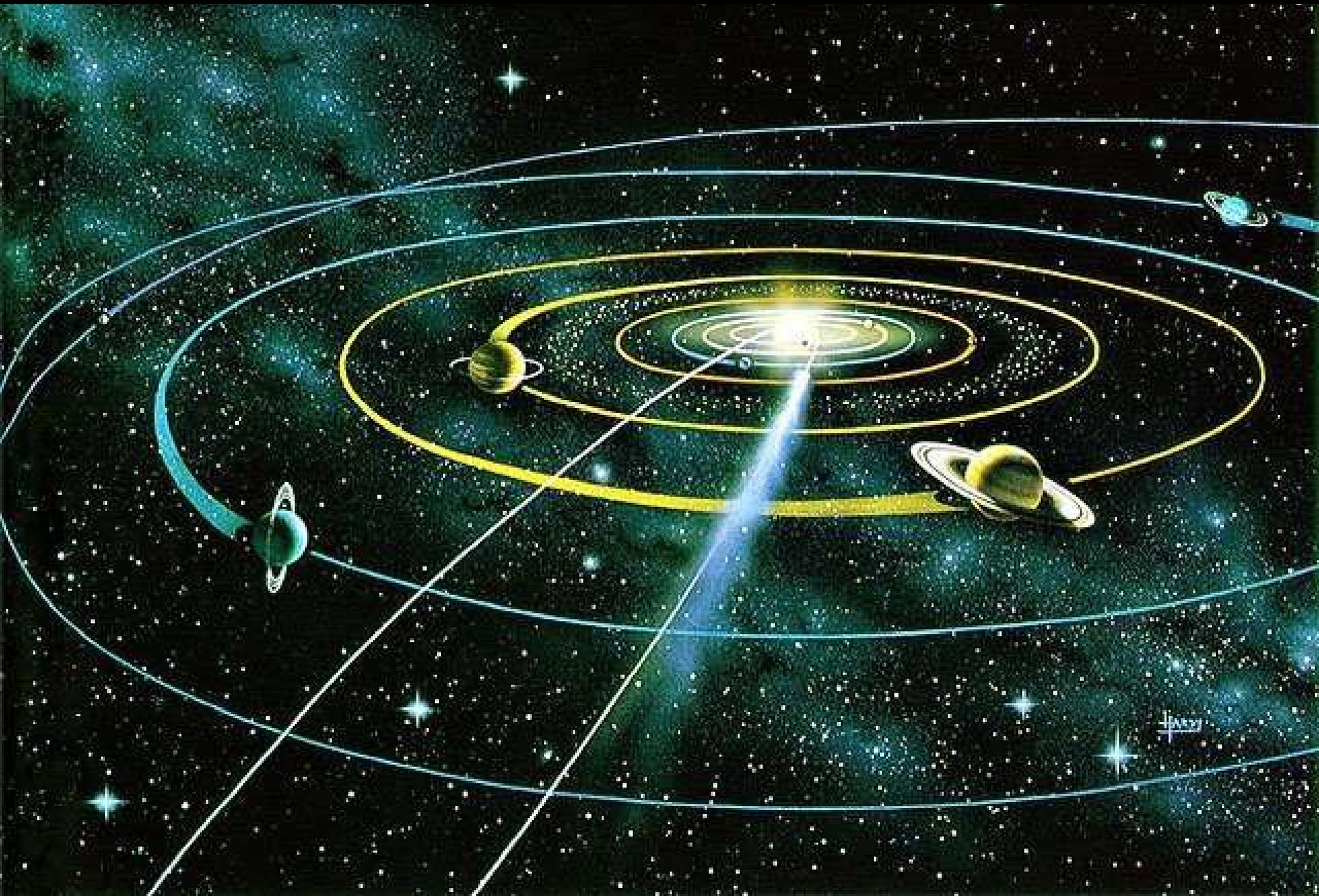
**It has no mind
It does not plan for the future
it is the blind watchmaker.’**

The law of cause and effect states that every material effect must have an adequate cause that existed before the effect.



**Mount Rushmore?
Intelligent design, or “chance?”**

The Universe? Intelligent design, or “chance?”



THE MOST REASONABLE CAUSE FOR ORGANIZATION?

587 Quadrillion Miles



EARTH = 60x60=3600

3,600 x 24 = 86,400 – (seconds in a day)

86,400 x 365 = 31,536,000 (seconds in a year)

186,000 x 31,536,000= 58,656,960,000,000

(# miles light travels in 1 year) –

58,656,960,000,000 x 100,000 =

58 trillion, 656, billion, 960, million miles

= ONE LIGHT YEAR

The Milky Way Galaxy: Vital Statistics

Diameter	100,000 light years
Thickness (Nucleus)	20,000 light years
Thickness (Disc)	2,000 light years
Number of Stars	100,000,000,000

Our Special Planet:- Our Place in the Universe

Right kind of galaxy :-

1 in 1 thousand in the universe!

Right kind of star :-

1 in 1 billion in acceptable galaxies!

Right kind of solar system :-

1 in 1 billion in acceptable stars!

Right kind of planet :-

1 in 10 billion in acceptable solar systems!

Our Special Planet:- Our Place in the Universe

**Our particular location in the universe
is quite special,
a matter of **many features** being just right.**

**In his 1995 edition, Hugh Ross, in The Creator & the Cosmos,
lists over 33 of these drawn from the scientific literature.**



Our Special Planet:-

TEMPERATURE

Varies from place to place on **Earth**, but:-
Few above boiling / Some below freezing
Contrast **Venus**, about 900 oF (500 oC).
Contrast **Mars**, barely gets above freezing
in midsummer at the equator.

Earth is

warm enough for water to be liquid,
cool enough not to destroy bio molecules.

Water. Much water is needed to support life, though a few organisms have techniques to conserve it and can live in arid regions.

Water on Venus and Mars is infinitesimal by comparison. **Earth's water** is also concentrated at the surface.



Our Special Planet:-

Atmosphere

Balance of oxygen and “inert” gases:
Few % **less** oxygen and animals can't breathe.

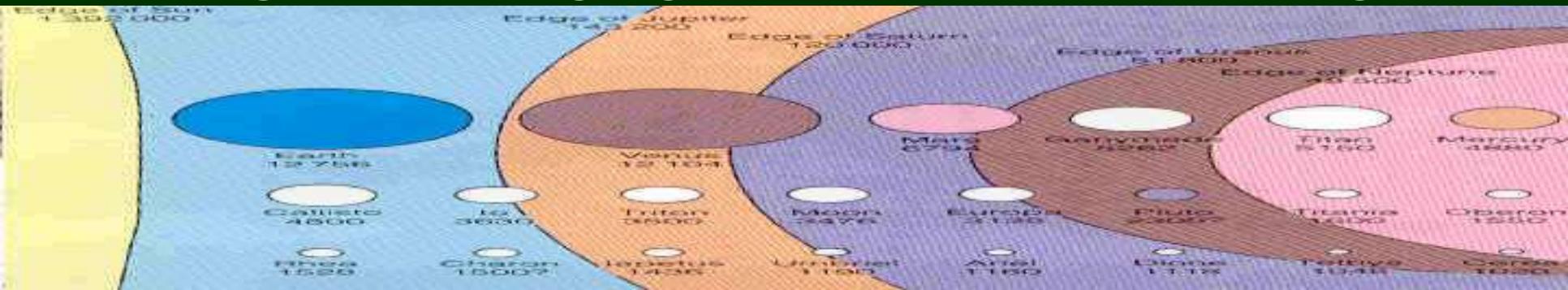
Few % **more** oxygen and plants burn up
Mars and Venus have virtually no free oxygen.



Mass

If Earth were $\frac{1}{4}$ **as massive**, atmospheric pressure would be too low for life.

If Earth were **twice as massive**, atmospheric pressure would be too high, producing a greenhouse effect and killing all life.



Our Special Planet:-

The Right Moon: Size & Distance

Our Moon is unique in the Solar System, by far the largest compared with its planet.

If it were smaller (or further away), Earth's climate would be unstable, tides too small for mixing.

If it were larger (or closer), tidal effects on Earth's rotation, ocean & atmosphere too large.



Our Special Planet:-

The Right Moon & Earth's Crust.

If Earth's crust **THICKER**, it would eat up the atmospheric oxygen.

If Earth's crust **THINNER**, too much volcanism and plate movement.



The Right Sun: Character

Mass in right range:

Heavier – luminosity changes too quickly.

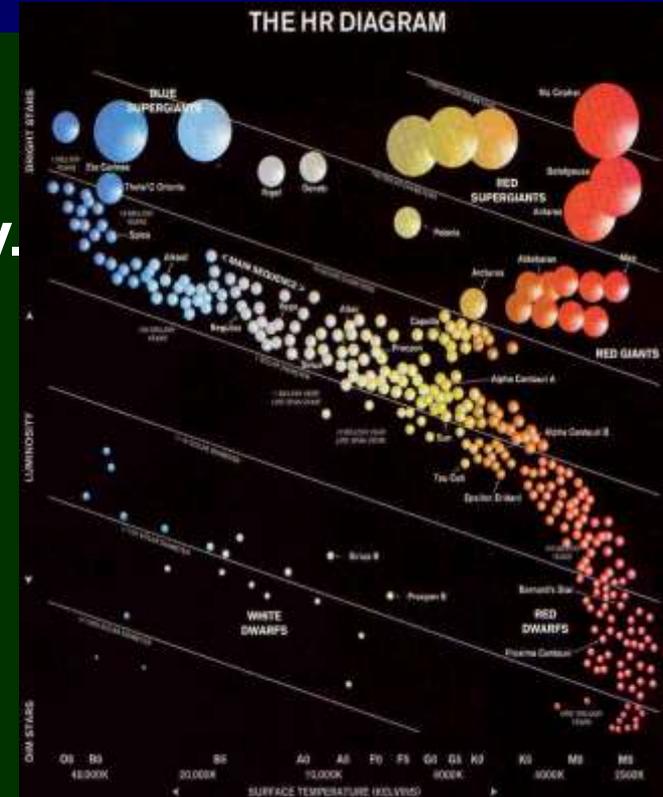
Lighter – life zone too narrow, tides too large.

Temperature (colour) in right range:

Redder – insufficient photosynthesis.

Bluer – ditto.

The Sun's **radiation** is right where our atmosphere is transparent.



Our Special Planet:-

The Right Sun: Location:-

Distance from center of galaxy:

Closer – gravity, radiation disruptive.

Further – too few heavy elements.

Right for supernovae:-

More or closer – exterminate life.

Less or further – too few heavy elements.

Right number of stars in system:-

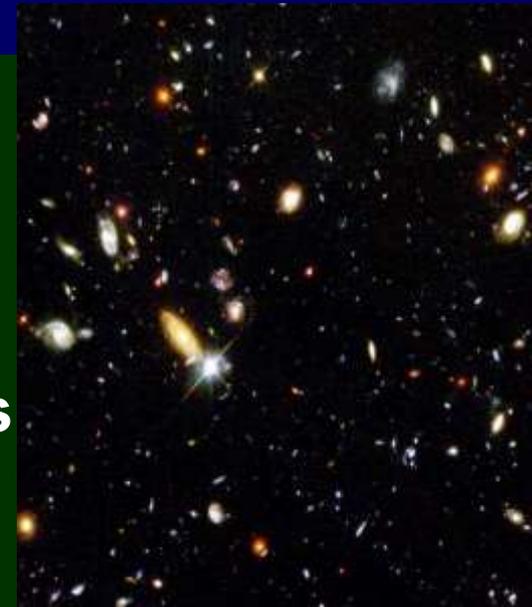
namely one!

The Right type of Galaxy:-

Our galaxy is a **spiral**, which produces stars over much of its history.

Not an elliptical, where star formation ends before there are many heavy elements

Not an irregular, where radiation events would have destroyed life.



Our Special Planet:- Our Place in the Universe

Temperature, Water, Atmosphere, Mass:-

Right Moon.

Size, Distance, Earth's Crust:-

Right Sun.

Character, Location:-

Right Galaxy.

Ross calculates the probability of accidentally getting his 33 items in the right range as 1 chance in 10⁵³.

What does this mean for the chances of finding an earth-like planet?

Surely not more than 10 planets per star.

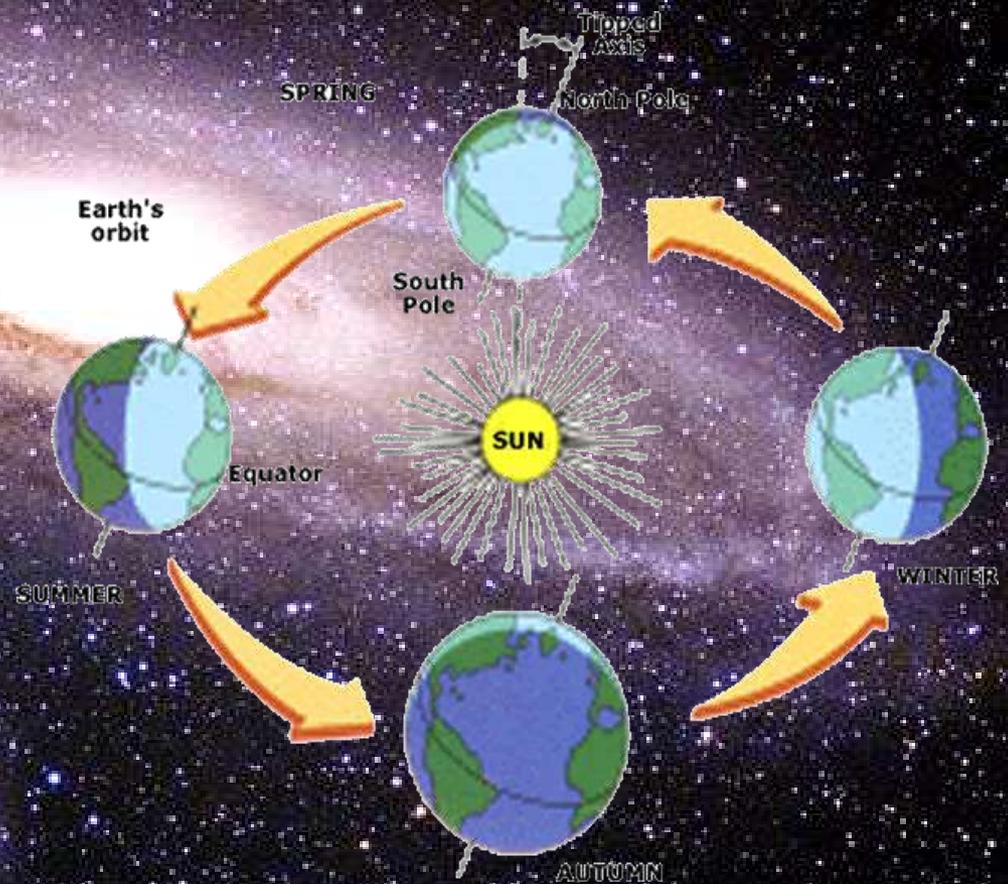
If so, only 10²⁴ planets in the Hubble volume.

Thus only 1 chance in 10²⁹

of getting even one such planet in our universe!

Our place in the universe appears to be telling us something!

Our Special Planet:- Our Place in the Universe



Our Special Planet:- Our Place in the Universe

Tilt and Revolution.

The Earth's axis is not oriented vertically, but is tilted by 23.5 degrees.

The north end of the axis is always pointed toward the North Star as the Earth revolves around the sun.

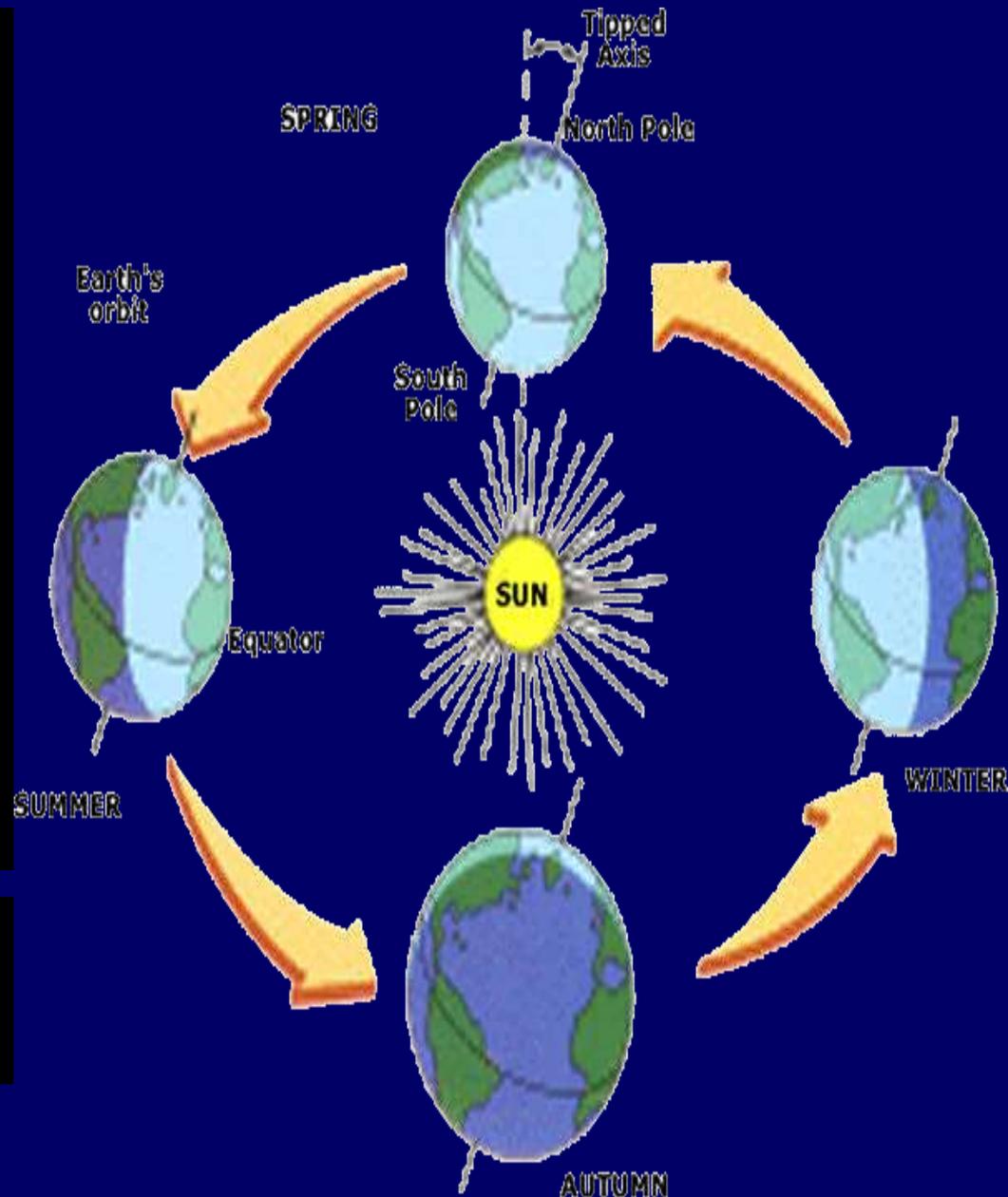
This tilt, combined with its revolution around the sun, causes seasonal changes. (When it's summer in the northern hemisphere, it's winter in the southern, and vice versa.)

If the axis was not tilted, our year-round climate would be rather boring and many places on earth wouldn't receive much light!

The Right Planet:- Our Place in the Universe

The **Earth** orbits, on average, **93 million miles (149,600,000 km)** from the **Sun**, taking one year to complete an orbit. The **Earth** revolves around the **Sun** at a speed of about **18.5 miles/sec (30 km/sec)**.

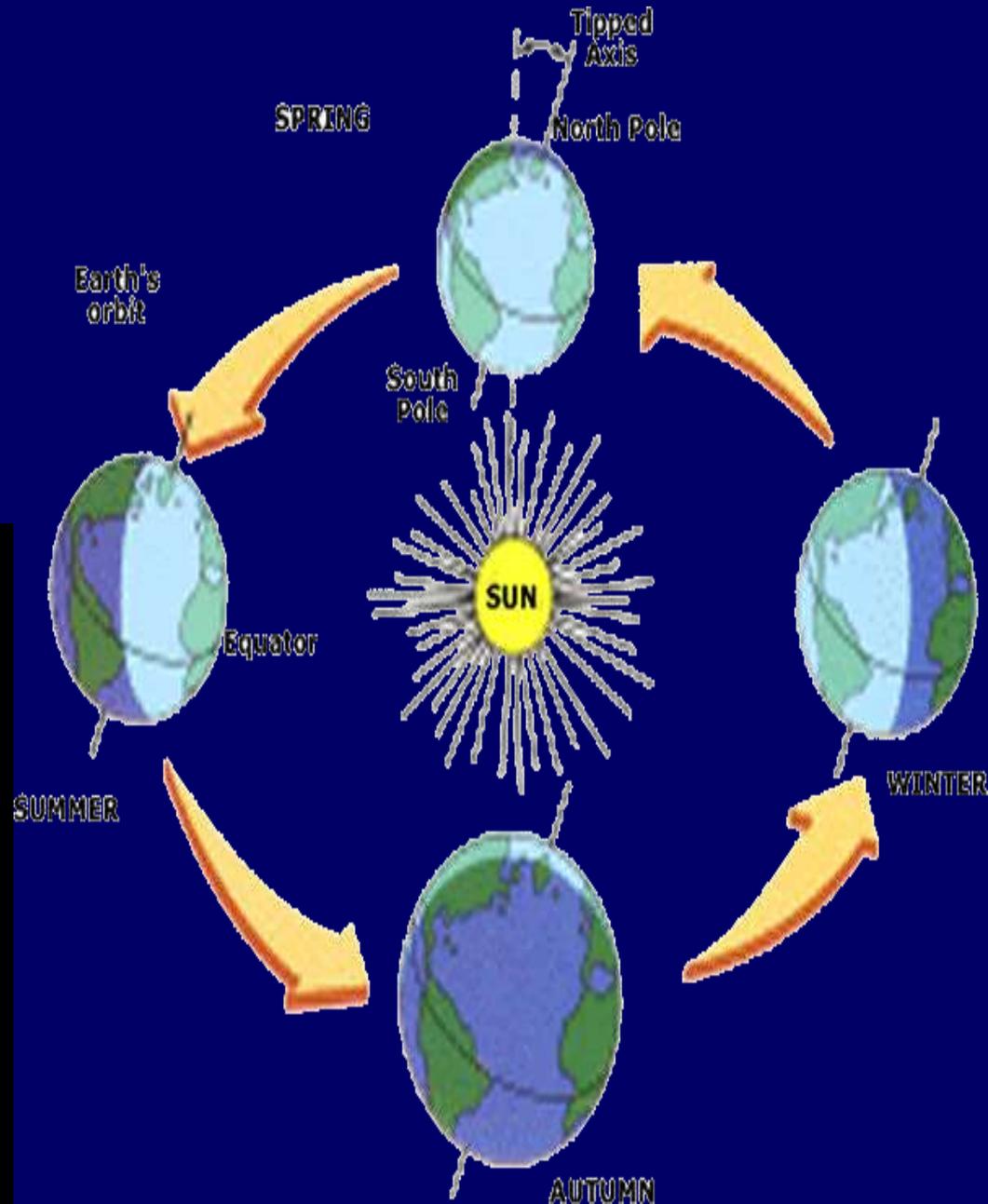
– varying **1/9th** of an inch every 18 miles . . .



Our Special Planet:- Our Place in the Universe

The Earth is spinning around its axis.

At the equator, the Earth's surface moves **40,000 kilometers in 24 hours**. That is a speed of about (1670 km/hr or 0.5 km/sec)



Our Special Planet:- Our Place in the Universe

Right distance from
the sun, (93 mil. miles)

Right tilt, 23.5 degrees

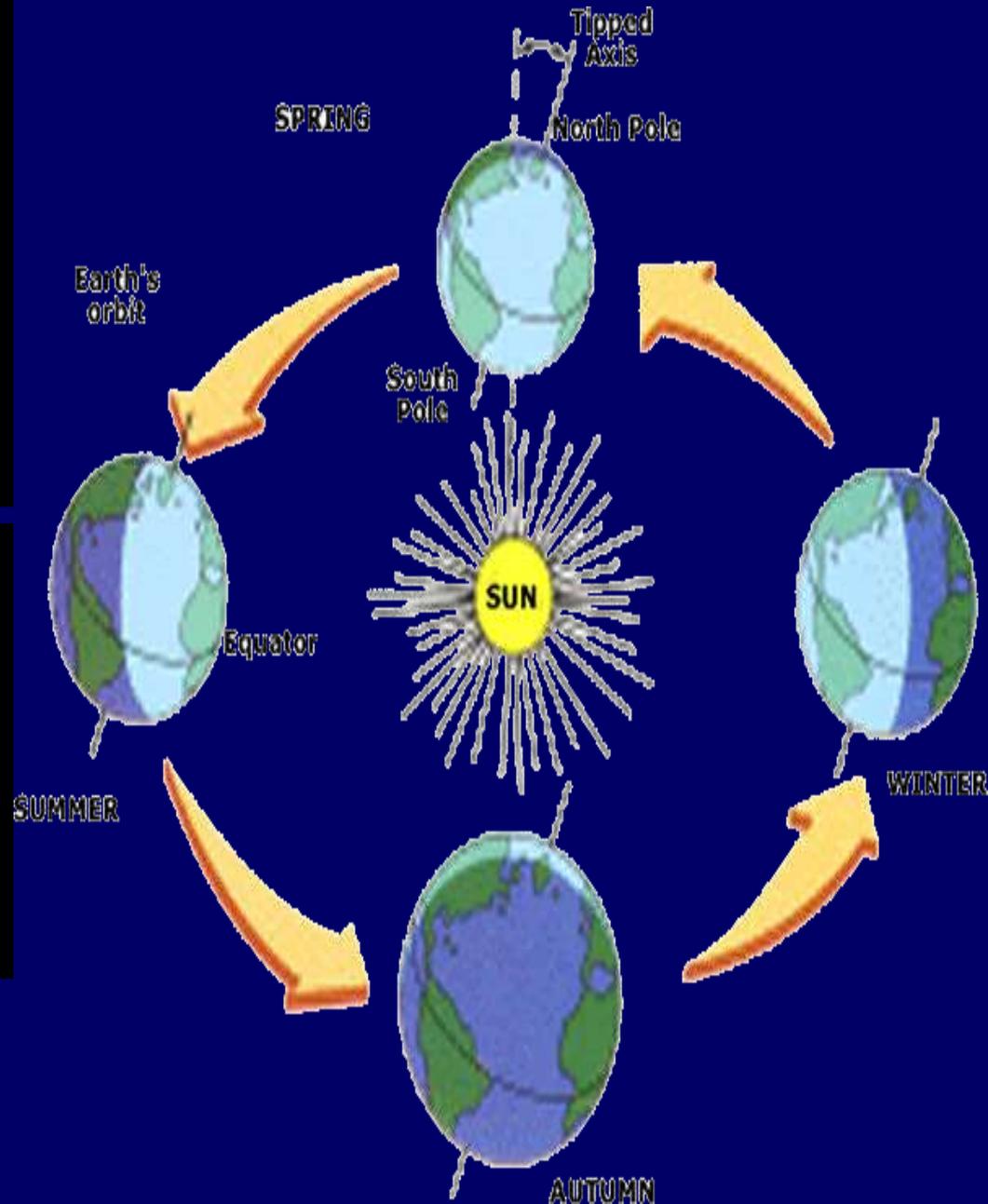
Right size, surface,
& gravity

Right atmosphere

Right elements (water)

Right temperature

Right crust thickness



THE MOST REASONABLE CAUSE FOR ORGANIZATION?



Donald Brownlee

Scientist, University of Washington

**“With the best intentions,
but limited by natural laws
and materials,
it is unlikely that earth
could ever truly
be replicated.**

**Too many processes
in its formation involved
sheer luck.”**

**(Rare Earth, Why Complex Life
is Uncommon In the Universe,
2000, pg 37)**

SUPREME INTELLIGENCE. (Heb. 3:4.)

**"For every house is built by some man;
but He that built all things is God."**

**When we see a house,
we know there was an architect.**

**When we see a painting,
we know that there was an artist.**

**When we see a newspaper,
we know that there was a printer.**

See the video – "The Watchmaker"

We draw these conclusions because we know that wherever there is a design there must have been a designer.

We cannot conceive, for example, of a watch "just happening", with its hundreds of parts working together in perfect precision. There had to be a maker..

For exactly the same reason **we know** that there is a God. That which has been caused in the universe bears unmistakable evidence of intelligence or Mind.

When we see the **heavenly bodies move with such precision that astronomers can predict hundreds of years in advance where a given celestial body will be at a given time, we can know that there has to be a supreme intelligence.**

When we consider how the balance in nature between the plant and animal worlds is sustained from one generation to another, we know that there is a God because **mere chance cannot offer an explanation.** Or when we think of the **miraculous reproductive systems found in every form of life, we can know that there first had to be a supreme designer.**



**THE GOD
WE SERVE**

Someone has written,
"If the word `God' were written
upon every blowing leaf,
embossed on every passing cloud,
engraved on every granite rock,

The inductive evidence that God
is in the world would be no stronger than it is.

When the human intellect thinks in terms
of finality with the world as its premise,
the `therefore' of every
syllogism will be `God'.

The universe is a big advertising poster
spelling `God'."

THE GOD WE SERVE

“Made the world and everything in it...”

“is Lord of heaven and earth”

“Does not dwell in temples made with hands”

“is Not worshiped with men’s hands...”

“Made from one blood every nation of men”

“Determined man’s times and the boundaries”

“He is not far from each of us”

“In Him we live and move
and have our very being.”

“Spirit – Divine Nature” Acts 17:22-24;

THE GOD WE SERVE

Acts 17:30-31 (NKJV)

Truly, these **times of ignorance**
God overlooked, but now
commands all men everywhere to repent,

because He has appointed a day on which
He will judge the world in righteousness
by the Man whom He has ordained

He has given assurance of this to all
by raising Him from the dead."

To have that hope of eternal life:

We need to **BELIEVE** In Jesus

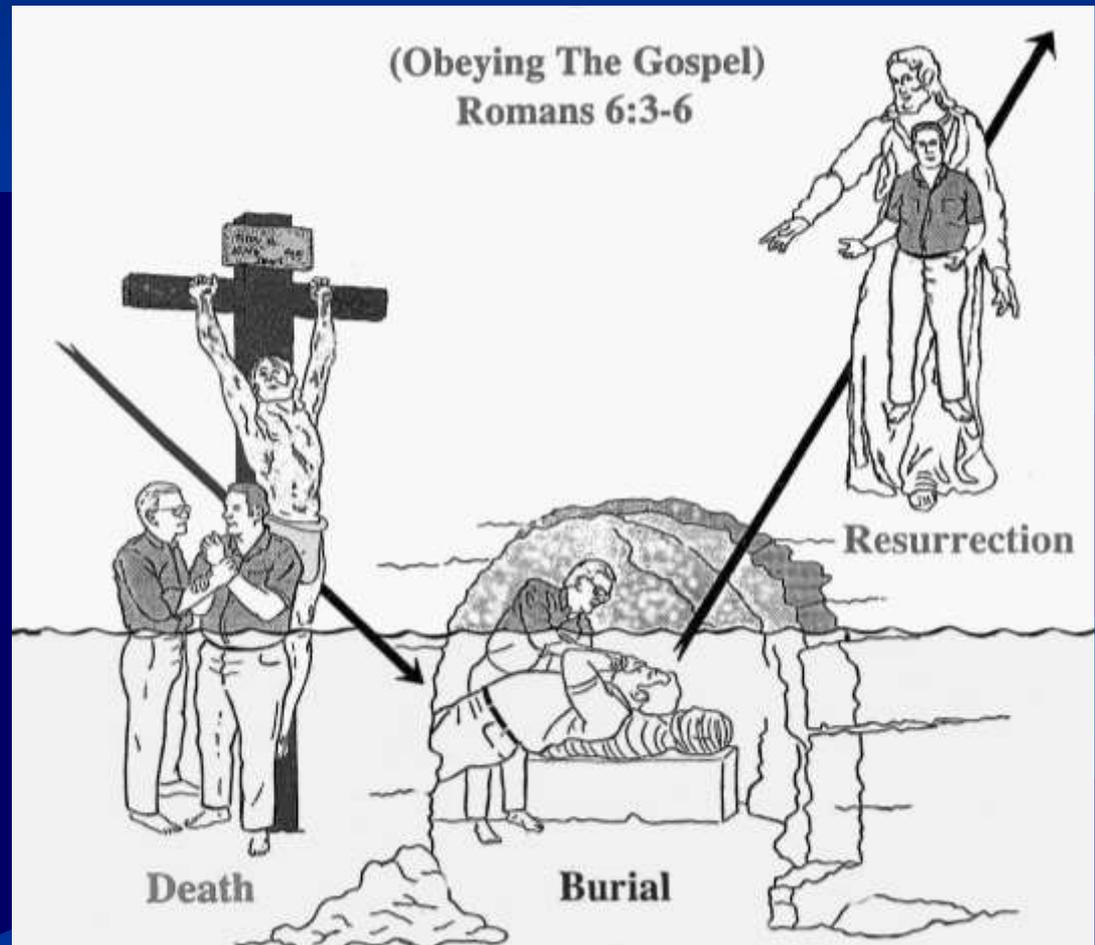
We need to **DIE** with Jesus

Be **BURIED** with
Him in Baptism

If **WE** are
UNITED with Him

We will be
RAISED like Him

Rom 6:3-4;



IS THERE A GOD
1 of 4
A REASONABLE FAITH

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Next in the series IS THERE A GOD? 2 of 4
The Complexity of life!