# IS DARWIN'S THEORY OF EVOLUTION CREDIBLE?

Is there sufficient time since the universe began for the earth to form and life thereon to occur by chance?

We are going to examine what science can tell us about this question!

# TWO CHOICES

1. The universe and the world in which we live came into existence through a random series of beneficial accidents

or

2. the universe and the world in which we live came into existence through intelligent and rational design.

For the first – "the universe is self existing and not created."  Humanist Declaration

"we are as much a product of blind forces as is the falling of a stone to earth or the ebb and flow of the tides.  We have just happened, and man was made flesh by a long series of singularly beneficial accidents." – Julian Huxley

For the second choice – Gen 1:1
In the beginning God created the heavens and the earth.

Two different views but what does the evidence show?

To answer this, we are going to have to ask what are the chances that the earth formed and life began during the scientifically estimated age of the Universe.

# Probability
## The likelihood of the occurrence of an event. Probability is expressed as percent or a number among the total possibilities.

An urn contains 1 red ball and 99 black balls.  The probability of drawing a red ball is one in 100.  A second urn contains 1 red ball and 99 black balls.  The probability of drawing a red ball is one in 100.

The probability of drawing a red ball from both urns is one in 100 times one in 100 or one in 10,000.  For ease of expressing large numbers 1 in $10^4$.

What is the evidence that the universe has existed forever?

Simply put, <u>there is none</u>!

Our galaxy, the milky way is $6 \times 10^{17}$ miles in diameter (100,000 light years). The Andromeda galaxy is estimated to be 750,000 light years away or 7.5 times as far away as our galaxy is in diameter. All galaxies are moving away from each other. This movement suggests that there is a point of origin. "The Big Bang theory" The Bible says that God caused the "Big Bang" in Gen 1.1

Black holes were found in the 1960's - matter attracted to a mass so dense that even light cannot escape the gravitational force.

Prevents second bang – that is an oscillating universe between nothing and something.

Based on the rate of travel of the galaxies, the age of the universe is estimated to be 10-20 X $10^9$ years old. (Ten to 20 billion years)
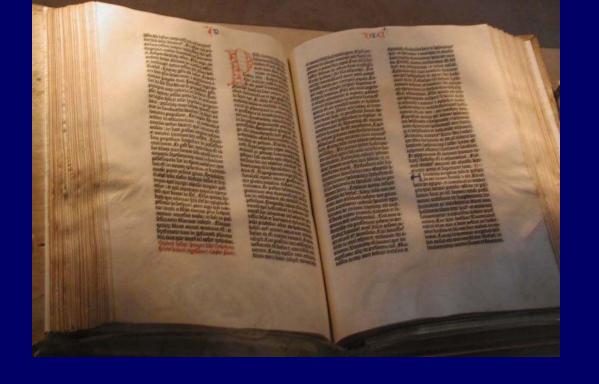
Is this sufficient time for the earth and life thereon to occur by chance?

Science deals with the consequences of the "big bang, it does not deal with the cause! What caused the "big bang?" What caused life? What caused life on earth? Is earth unusual in having life?

"I am concerned that many theologians have taken such dogmatic positions that they have unintentionally aided in the rebellion of youth by stifling honest and thoughtful inquiries of the mind." – Henry Eyring (a famous chemist)
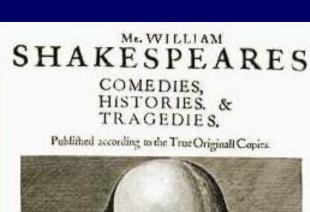
At the same time, we must remember that the greatest disservice to religion is to attempt to support the truth with erroneous or poor arguments.
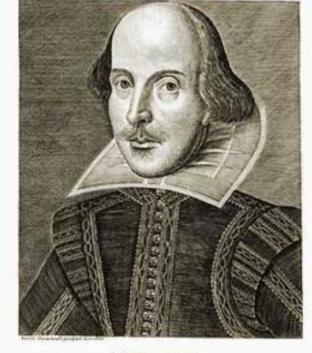
Science encourages the proposition of erroneous theories which must be tested by the experimental method.  We must remember that scientists may be mistaken in their interpretation of the facts but other scientists will ultimately prove them to be incorrect.

On the contrary, the Bible is either inspired of God and is absolutely and inerrantly true or it is false. We cannot distort the facts we can experimentally show to be true in order to explain the Bible

It is often said that given enough time and enough typewriters, monkeys in a print shop could type all of the works of Shakespeare.
"To be or not to be that is the

_____ "

Let's give the monkeys a keyboard with 26 letters and a space bar. 36 things each having 27 possibilities gives the odds of 1 in $2.4 \times 10^{45}$

Assume the world is the 4.5 billion years old ($4.5 \times 10^9$) that science estimates.

If everyone in the US (300 million) were monkeys, typing 1 letter/sec (31 million letters per year)

The chance of our having randomly typed the phrase,"To be or not to be that is the _____" (1 in $10^{24}$) would be about the same as the chance of our dying because all of the air in the room suddenly rushed to one corner.

It simply won't happen by chance!

Suppose that you and I were walking in the middle of the Sahara desert and we came upon a watch.

If I told you that this watch must have been here since the dawn of creation and now we have found it in perfect working order, keeping time absolutely correctly, even having the correct date, you would immediately think I was telling a great joke.

It took intelligent design and centuries of invention by man in order to make this watch.  You can even tell by looking that this watch is not 300 years old, much less 3 billion years old

But what if I were to tell you that God has given us far more accurate clocks than any we possess. One is $^{14}C$ dating $T^{1/2}$=5568 yrs.  Used by science to tell us the age of growing things less than 50,000 years old.

In granite, small amounts of uranium are trapped in the crystal structure as the granite formed. A block of granite is not affected by leaching by water or other factors and the enclosed clock tells us when God started this wonderful clock.

Some of the uranium is radioactive and decays ultimately to a non-radioactive lead. $^{238}$U (T$^{1/2}$=7.1X10$^6$yrs) decays to $^{206}$Pb and $^{235}$U (T$^{1/2}$=4.5X10$^9$yrs) decays to $^{207}$Pb  by measuring the amount of all these materials, these clocks tell us the age of the granite and are far more precise than any watch made for the individual.

What caused life? – We are told that an abundance of water was necessary.  What are the chances that we will find another planet in our galaxy that is suitable for life?

There are about 100 X $10^9$ stars in the Milky Way – our galaxy – which stretch across 100,000 light years of space.

| Requirements: | Odds |
|---|---|
| solar system | 1 in 1000 |
| planet position | 1 in 10 |
| proper mass | 1 in 1000 |
| proper spin | 1 in 10 |
| proper tilt | 1 in 10 |

| | |
|---|---|
| magnetic field | 1 in 10 |
| carbon to oxygen ratio | 1 in 100 |
| number of moons | 1 in 20 |
| mass/distance of moon | 1 in 100 |
| atmospheric pressure | 1 in 100 |
| carbon dioxide level | 1 in 100 |
| gaseous oxygen level | 1 in 100 |

The probability of these things occurring on a random basis          is 1 in $5 \times 10^{21}$

Chance of being struck by lightening     1 in $10^6$

Chance surviving a 10,000 ft fall          1 in $10^7$

Chance of winning the lottery 1 in $10^8$

With just these few variables, there is virtually no chance of the random occurrence of another planet in this galaxy having the proper combination of requirements to provide a suitable place for life.

For life in the universe, it has been estimated that there are $10^{22}$ planets. By looking at a larger number of variables (200) including the proper kinds of galaxies, the possibility of meeting these requirements is 1 in $10^{237}$. "Thus, less than 1 chance in $10^{215}$ (one hundred billion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion trillion) exists that even one such planet would occur anywhere in the universe without invoking divine miracles."

By random chance, Darwin doesn't even have an earth in which to use natural selection to create life in the time given!

# Ps 14:1

The fool has said in his heart ,
"There is no God."

The Horsehead nebula in Orion, taken by NASA, 2006

Ps 19:1 The heavens are telling of the glory of God; And their expanse is declaring the work of His hands. 2 Day to day pours forth speech, And night to night reveals knowledge.  3 There is no speech, nor are there words; Their voice is not heard.  4 Their line has gone out through all the earth, And their utterances to the end of the world.

Darwin cannot be right, for by random chance, we would not even be here.

Indeed, God has created the heavens and the earth!