

**EVOLUTION**

## **PRAYER TO THE HOLY SPIRIT**

Come Holy Spirit, fill the hearts of your faithful and kindle in them the fire of your love. Send forth your Spirit and they shall be created. And You shall renew the face of the earth.

O God, who by the light of the Holy Spirit did instruct the hearts of the faithful,  
grant that by the same Holy Spirit,  
we may be truly wise and ever enjoy His consolations.

Through Christ our Lord.

Amen.

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# OUTLINE

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4. NATURAL SCIENCE

# DEFINITION OF TERMS

- Evolution -- Change
- Cosmological vs. Biological Evolution
- Creationism vs. Evolutionism
- Evolution -- Theistic and Atheistic
- Science and the Scientific Method

# **Evolution (Change)**

# CHANGE AND GREEK PHILOSOPHY

## Heraclitus and Parmenides

- Heraclitus and Parmenides were Pre-Socratic philosophers which means they lived in Greece before the time of Socrates (about the 5<sup>th</sup> century B.C.).
- Heraclitus was famous for his insistence on ever-present change in the universe, as stated in the famous saying, "No man ever steps in the same river twice". Heraclitus thought that the fundamental property of the universe was that it was always changing.
- Parmenides couldn't disagree more, in fact, he thought that the entire idea of change was impossible and the world was basically a huge unmoving solid chunk of stuff.
- Parmenides describes two views of reality. In "the way of truth", he explains how reality (coined as "what-is") is one, change is impossible, and existence is timeless, uniform, necessary, and unchanging. In "the way of opinion," he explains the world of appearances, in which one's sensory faculties lead to conceptions which are false and deceitful.

# SOCRATES, PLATO AND ARISTOTLE

- The Socratic or Classical period of the Ancient era of philosophy denotes the Greek contemporaries and near contemporaries of the influential philosopher Socrates.
- It includes the following major philosophers:
  - Socrates (464 - 399 B.C.) Greek
  - Plato (c. 428 - 348 B.C.) Greek
  - Aristotle (384 - 322 B.C.) Greek
- Socrates developed a system of critical reasoning in order to work out how to live properly and to tell the difference between right and wrong. He and his followers, Plato and Aristotle maintained an unwavering commitment to the truth, and between them they organized and systematized most of the problems of philosophy.

# Aristotle's Categories

| <u>Categories</u> | <u>Aristotle's Term</u>               | <u>Examples</u>                               |
|-------------------|---------------------------------------|---|
| Substance/Essence | "substance"<br>"this"<br>"what-it-is" | man, horse<br>Socrates<br>"Socrates is a man" |
| Quantity          | How much                              | four-foot, five-foot                          |
| Quality           | What sort                             | White (color), literate                       |
| Relation          | related to what                       | double, half, greater                         |
| Location          | Where                                 | in the Lyceum, in the marketplace             |
| Time              | When                                  | yesterday, last year                          |
| Position          | Being situated                        | lies, sits, stands                            |
| Habit             | Having, possession                    | is shod, is armed                             |
| Action            | Doing                                 | cuts, burns                                   |
| Passion           | Undergoing                            | is cut, is burned                             |

# SUBSTANTIAL VS. ACCIDENTAL CHANGE

## Accidental Change

Quantity

Quality

Location

## Substantial Change

Change in substance (what is). If one admits that sodium and chlorine are different substances (and they certainly appear different - one is a white metal, the other a green gas), and that they are each different from salt (also apparently so), then one can see that the change from sodium and chlorine to salt is a substantial change.

We experience both accidental and substantial change (evolution) during our lifetime journey.

# **Cosmological vs. Biological Evolution**

# Cosmological vs. Biological Evolution

- Cosmology -- the science of the origin and development of the universe. (Big Bang Theory)
- Biological evolution -- Change in the genetic composition of a population during successive generations, often resulting in the development of new species. The mechanisms of evolution include natural selection acting on the genetic variation among individuals, mutation, migration, and genetic drift.

# **Creationism vs. Evolutionism**

# Creationism vs. Evolutionism (Biological)

- Presently , there are two currents of thought regarding the origin of man: “Creationism” and “Evolutionism”.
- Creationism affirms that God created directly a first man from the earth (Adam), and infused His vital breath (soul) in him.
- Evolutionism affirms that, through evolution, man comes from the monkey or from a hominid (bipedal primate mammal).

# **Evolution -- Theistic and Atheistic**

# Evolution -- Theistic and Atheistic

Within evolutionism, then, two main branches can be distinguished:

- A materialist Evolutionism, which denies the soul or accepts it as a product of the evolution of matter.
- A mitigated Evolutionism, which accepts that God may have infused the soul at a certain stage of the evolution.

However, the root of both is the same: the origin of the body of man is an animal which has evolved to the point of becoming man.

# **Science and the Scientific Method**

# Science and the Scientific Method

- Science is defined as **certain** knowledge in terms of proper causes and principles.
- Within the umbrella of science are theology and philosophy along with the natural sciences.
- Within the realm of the natural sciences, the scientific method uses observation and experimentation as a means to test hypothesis as to their validity.

# Hypothesis, Theory and Demonstrated Scientific Fact

- **Hypothesis** - a proposition made as a basis for reasoning, without any assumption of its truth.
- **Theory** - a coherent group of propositions formulated to explain a group of facts or phenomena in the natural world and repeatedly confirmed through experiment or observation
- **Demonstrated Scientific Truth** – Demonstrated and confirmed truths established by observation and experimentation.

# **THEOLOGY**

# GOD'S REVELATION

- God reveals himself to us by His Creation and by His Word.
- Sacred Scripture is part of God's Revelation.
- The purpose of God's Revelation is salvation and sanctification.
- Therefore, Sacred Scripture deals with the question "Why" was the world created.
- Natural Science concerns itself with "How" the world was created.
- The only place in the Bible where God addresses the issue of "How" the world was created is in the 38<sup>th</sup> Chapter of the Book of Job.

# BOOK OF JOB

## CHAPTER 38

### The Lord Answers Job

- Then the Lord answered Job out of the whirlwind: “Who is this that darkens counsel by words without knowledge? Gird up your loins like a man, I will question you, and you shall declare to me. (v. 1-3).
- Tell me, where were you when God laid the foundations of the Earth? If you know so much, tell me about it. (v. 4).
- Where were you when the mass of the Earth was formed from the dust, and the dust hardened into lumps? (v. 38).
- Have you ever dictated the laws to the light of the morning, and pointed to the dawn the place from which to arise? (v. 12).

- Could you perhaps tie the Pleiades together or loosen the bonds that hold Orion? (v. 31).
- Are you perhaps the one who makes the star of the morning appear at due time, or that of the evening shine over the inhabitants of the Earth?
- Do you know the laws that govern the skies, and can you make them apply to the Earth? (v. 31-33).
- Can you explain the position of the skies, or make their harmonious movements cease?
- Can you perhaps shout order to the clouds and make them drench you with rains? (v.34)
- And if you command the lightning to flash, will it come to you and say: “At your service”? (v. 35).

# POSITION OF THE CHURCH

## Pope Pius XII – Encyclical Humani Generis

ENCYCLICAL OF POPE PIUS XII CONCERNING SOME FALSE OPINIONS  
THREATENING TO UNDERMINE THE FOUNDATIONS OF CATHOLIC DOCTRINE  
AUGUST 12, 1950.

Disagreement and error among men on moral and religious matters have always been a cause of profound sorrow to all good men, but above all to the true and loyal sons of the Church, especially today, when we see the principles of Christian culture being attacked on all sides....

If anyone examines the state of affairs outside the Christian fold, he will easily discover the principal trends that not a few learned men are following. Some imprudently and indiscreetly hold that evolution, which has not been fully proved even in the domain of natural sciences, explains the origin of all this, and audaciously support the monistic and pantheistic opinion that the world is in continual evolution.....

It remains for Us now to speak about those questions which, although they pertain to the positive sciences, are nevertheless more or less connected with the truths of the Christian faith. In fact, not a few insistently demand that the Catholic religion takes these sciences into account as much as possible. **This certainly would be praiseworthy in the case of clearly proved facts; but caution must be used when there is rather question of hypotheses,** having some sort of scientific foundation, in which the doctrine contained in Sacred Scripture or in Tradition is involved. **If such conjectural opinions are directly or indirectly opposed to the doctrine revealed by God, then the demand that they be recognized can in no way be admitted.**

For these reasons the Teaching Authority of the Church **does not forbid that,** in conformity with the present state of human sciences and sacred theology, **research and discussions, on the part of men experienced in both fields, take place with regard to the doctrine of evolution, in as far as it inquires into the origin of the human body as coming from pre-existent and living matter -- for the Catholic faith obliges us to hold that souls are immediately created by God.** However this must be done in such a way that the reasons for both opinions, that is, those favorable and those unfavorable to evolution, be weighed and judged with the necessary seriousness, moderation and measure, and provided that all are prepared to submit to the judgment of the Church, to whom Christ has given the mission of interpreting authentically the Sacred Scriptures and of defending the dogmas of faithful[11] **Some however rashly transgress this liberty of discussion, when they act as if the origin of the human body from preexisting and living matter were already completely certain and proved by the facts which have been discovered up to now and by reasoning on those facts, and as if there were nothing in the sources of divine revelation which demands the greatest moderation and caution in this question.**

When, however, there is question of another conjectural opinion, namely ***polygenism***, the children of the Church by no means enjoy such liberty. For the faithful cannot embrace that opinion which maintains that either after Adam there existed on this earth true men who did not take their origin through natural generation from him as from the first parent of all, or that Adam represents a certain number of first parents. Now it is in no way apparent how such an opinion can be reconciled with that which the sources of revealed truth and the documents of the Teaching Authority of the Church propose with regard to **original sin, which proceeds from a sin actually committed by an individual Adam and which, through generation, is passed on to all and is in everyone as his own.**

Just as in the biological and anthropological sciences, so also in the historical sciences **there are those who boldly transgress the limits and safeguards established by the Church.** In a particular way must be deplored a certain too free interpretation of the historical books of the Old Testament. ....**This letter, in fact, clearly points out that the first eleven chapters of Genesis do nevertheless pertain to history in a true sense....** both state the principal truths which are fundamental for our salvation, and also give a popular description of the origin of the human race and the chosen people.

# Response of the Pontifical Biblical Commission on Genesis -- June 30, 1909

The 1909 **Pontifical Biblical Commission** affirms these facts include:

1. the creation of all things which was accomplished by God at the beginning of time;
2. the special creation of man;
3. the formation of the first woman from man;
4. the unity of the human race;
5. the original happiness of our first parents in a state of justice, integrity, and immortality;
6. the divine command laid upon man to prove his obedience;
7. the transgression of that divine command at the instigation of the devil under the form of a serpent;
8. the fall of our first parents from their primitive state of innocence; and the promise of a future Redeemer."

# **PHILOSOPHY**

# THE SOUL

- The Soul is the principle of life in a material being.
- Plants, animals and humans have souls.
- Plants have life in a limited way – Growth, Assimilate Food, Reproduce.
- Animals experience life in a greater degree than plants – Feelings and capacity for movement.
- Human beings experience life to a greater degree than plants and animals.
- Human beings have two spiritual powers – Intellect (Reason) and Will (Freedom to choose).

# THE SPIRITUAL SOUL

- Human beings are capable of science, language and obligated to moral laws; principles not evident in the animal world.
- The soul of a human being is spiritual and not bound by the material world and can exist outside of the body.
- The human soul is created by God upon conception. “Then the Lord God took some soil from the ground and formed man out of it; **He breathed life-giving breath** into his nostrils and the man **began to live**” (Genesis 2,7)

# GOD AND LIFE

- Evolutionary theory has an ape evolving into a man.
- The animal soul is radically different and inferior to a human soul.
- Based on evolutionary theory, God would have allowed an ape over millions of years to develop his body to that befitting of a human body.
- When the development was complete, God would remove the animal soul of the ape (thereby killing it) and then insert the human (spiritual) soul into this body to create a human being.
- The God of life uses death to create life?

# THE BODY

- Man is upright, and so he walks; he is the only living being that looks toward the heavens. The monkey is bent over, and so it walks, and just like all other animals, it looks toward the earth.
- Man has two feet and two hands – he is bimanous; the monkey has four hands – it is quadrumanous.
- The arms of man are proportioned, and shorter than his legs. The arms of the monkey are longer than its rear limbs, and are disproportionately long compared to those of man.

- The skull of man is three times bigger than that of the monkey; in order to contain a more developed brain.
- Man has a large forehead above his eyes; in the monkey the forehead is small and almost hidden between the orbital arches of the eyes.
- Man is born with his skin naked; the monkey with skin covered by hair, like other animals.
- The skin of the face of man is soft and even; that of the monkey is filled with folds and wrinkles from the time of birth.

- Man develops very slowly, at two years of age he is a child; the monkey, like the other brutes, grows rapidly; and at two years of age is an adult monkey.
- In the human head the top – the brain-- is predominant; in that of the monkey the lower part – the jaws – dominates.
- The approximate weight of the brain of a man is 2.85 pounds; that of a gorilla is 1 pound.

- It is important to notice how there is more similarity among species of the same family (for example between a cat and a tiger) than between the monkey and man.
- Nevertheless, we all understand perfectly that the tiger is not an evolved cat, and that a cat is not a tiger in evolution, but rather they are animals of distinct species and because of their similarities they belong to the same family of felines.

# **NATURAL SCIENCE**

# COSMOLOGICAL EVOLUTION

- Many in contemporary culture have a worldview that perceives the universe at 13.8 billion years old and the Earth at 4.5 billion years old.
- Literally hundreds of dating methods could be used to attempt an estimate of the earth's age, and the vast majority of them point to a much younger earth than 4.5 billion years.
- Despite this wealth of evidence, it is important to understand that, from the perspective of observational science, no one can prove absolutely how young (or old) the universe is. Only one dating method is absolutely reliable—a witness who doesn't lie, who has all the evidence, and who can reveal to us when the universe began! ..... **GOD**

# Very Little Sediment on the Seafloor

- If sediments have been accumulating on the seafloor for three billion years, the seafloor should be choked with sediments many miles deep.
- Every year water and wind erode about 20 billion tons of dirt and rock debris from the continents and deposit them on the seafloor. Most of this material accumulates as loose sediments near the continents. Yet the average thickness of all these sediments globally over the whole seafloor is not even 1,300 feet (400m).
- Some sediments appear to be removed as tectonic plates slide slowly (an inch or two per year) beneath continents. An estimated 1 billion tons of sediments are removed this way each year.<sup>3</sup> The net gain is thus 19 billion tons per year. At this rate, 1,300 feet of sediment would accumulate in less than 12 million years, not billions of years.
- This evidence makes sense within the context of the Genesis Flood cataclysm, not the idea of slow and gradual geologic evolution. In the latter stages of the year-long global Flood, water swiftly drained off the emerging land, dumping its sediment-choked loads offshore. Thus most seafloor sediments accumulated rapidly about 4,300 years ago.

- Those who advocate an old earth insist that the seafloor sediments must have accumulated at a much slower rate in the past. But this rescuing device doesn't "stack up"! Like the sediment layers on the continents, the sediments on the continental shelves and margins (the majority of the seafloor sediments) have features that unequivocally indicate they were deposited much faster than today's rates.
- For example, the layering and patterns of various grain sizes in these sediments are the same as those produced by undersea landslides, when dense debris-laden currents (called turbidity currents) flow rapidly across the continental shelves and the sediments then settle in thick layers over vast areas. An additional problem for the old-earth view is that no evidence exists of much sediment being subducted and mixed into the mantle.

by Dr. Andrew A. Snelling on October 1, 2012

Dr. Andrew Snelling holds a PhD in geology from the University of Sydney and has worked as a consultant research geologist in both Australia and America. Author of numerous scientific articles, Dr. Snelling is now director of research at Answers in Genesis.

# Bent Rock Layers

- In many mountainous areas, rock layers thousands of feet thick have been bent and folded without fracturing. How can that happen if they were laid down separately over hundreds of millions of years and already hardened?
- If the earth's fossil-bearing sedimentary layers were laid down over 460 million years, they could not be bent without breaking.
- Hardened rock layers are brittle. Try bending a slab of concrete sometime to see what happens! But if concrete is still wet, it can easily be shaped and molded before the cement sets. The same principle applies to sedimentary rock layers. They can be bent and folded soon after the sediment is deposited, before the natural cements have a chance to bind the particles together into hard, brittle rocks.
- The region around Grand Canyon is a great example showing how most of the earth's fossil-bearing layers were laid down quickly and many were folded while still wet.
- The only viable scientific explanation is that the whole sequence was deposited very quickly—the creation model indicates that it took less than a year, during the global Flood cataclysm.

# Soft Tissue in Fossils

- Ask the average layperson how he or she knows that the earth is millions or billions of years old, and that person will probably mention the dinosaurs, which nearly everybody “knows” died off 65 million years ago. A recent discovery by Dr. Mary Schweitzer, however, has given reason for all but committed evolutionists to question this assumption. If dinosaurs lived over 65 million years ago, why do some dinosaur fossils still contain well-preserved soft tissues?
- Bone slices from the fossilized thigh bone (femur) of a Tyrannosaurus rex found in the Hell Creek formation of Montana were studied under the microscope by Schweitzer. To her amazement, the bone showed what appeared to be blood vessels of the type seen in bone and marrow, and these contained what appeared to be red blood cells with nuclei, typical of reptiles and birds (but not mammals). The vessels even appeared to be lined with specialized endothelial cells found in all blood vessels.
- Amazingly, the bone marrow contained what appeared to be flexible tissue. Initially, some skeptical scientists suggested that bacterial biofilms (dead bacteria aggregated in a slime) formed what only appear to be blood vessels and bone cells. Recently Schweitzer and coworkers found biochemical evidence for intact fragments of the protein collagen, which is the building block of connective tissue. This is important because collagen is a highly distinctive protein not made by bacteria. (See Schweitzer’s review article in *Scientific American* [December 2010, pp. 62–69] titled “Blood from Stone.”)
- Some evolutionists have strongly criticized Schweitzer’s conclusions because they are understandably reluctant to concede the existence of blood vessels, cells with nuclei, tissue elasticity, and intact protein fragments in a dinosaur bone dated at 68 million years old. Other evolutionists, who find Schweitzer’s evidence too compelling to ignore, simply conclude that there is some previously unrecognized form of fossilization that preserves cells and protein fragments over tens of millions of years. Needless to say, no evolutionist has publically considered the possibility that dinosaur fossils are not millions of years old.

- An obvious question arises from Schweitzer's work: is it even remotely plausible that blood vessels, cells, and protein fragments can exist largely intact over 68 million years? While many consider such long-term preservation of tissue and cells to be very unlikely, the problem is that no human or animal remains are known with certainty to be 68 million years old. But if creationists are right, dinosaurs died off only 3,000–4,000 years ago. So would we expect the preservation of vessels, cells, and complex molecules of the type that Schweitzer reports for biological tissues historically known to be 3,000–4,000 years old?
- The answer is yes. Many studies of Egyptian mummies and other humans of this old age (confirmed by historical evidence) show all the sorts of detail Schweitzer reported in her T. rex. In addition to Egyptian mummies, the Tyrolean iceman, found in the Alps in 1991 and believed to be about 5,000 years old, shows such incredible preservation of DNA and other microscopic detail.
- We conclude that the preservation of vessels, cells, and complex molecules in dinosaurs is entirely consistent with a young-earth creationist perspective but is highly implausible with the evolutionist's perspective about dinosaurs that died off millions of years ago.
- Dr. David Menton holds a PhD in cell biology from Brown University and is a well-respected author and teacher. He is Professor Emeritus at the Washington University School of Medicine in St. Louis. Dr. Menton has many published works and is one of the most popular speakers for Answers in Genesis.

# Faint Sun Paradox

- Evidence now supports astronomers' belief that the sun's power comes from the fusion of hydrogen into helium deep in the sun's core, but there is a huge problem. As the hydrogen fuses, it should change the composition of the sun's core, gradually increasing the sun's temperature. If true, this means that the earth was colder in the past. In fact, the earth would have been below freezing 3.5 billion years ago, when life supposedly evolved.
- The rate of nuclear fusion depends upon the temperature. As the sun's core temperatures increase, the sun's energy output should also increase, causing the sun to brighten over time. Calculations show that the sun would brighten by 25% after 3.5 billion years. This means that an early sun would have been fainter, warming the earth 31°F (17°C) less than it does today. That's below freezing.
- But evolutionists acknowledge that there is no evidence of this in the geologic record. They even call this problem the faint young sun paradox. While this isn't a problem over many thousands of years, it is a problem if the world is billions of years old.
- Over the years scientists have proposed several mechanisms to explain away this problem. These suggestions require changes in the earth's atmosphere. For instance, more greenhouse gases early in earth's history would retain more heat, but this means that the greenhouse gases had to decrease gradually to compensate for the brightening sun.
- None of these proposals can be proved, for there is no evidence. Furthermore, it is difficult to believe that a mechanism totally unrelated to the sun's brightness could compensate for the sun's changing emission so precisely for billions of years.
- Dr. Danny Faulkner is a professor of physics and astronomy at the University of South Carolina Lancaster. He has written numerous articles in astronomical journals, and he is the author of Universe by Design.

# Rapidly Decaying Magnetic Field

- The earth is surrounded by a magnetic field that protects living things from solar radiation. Without it, life could not exist. That's why scientists were surprised to discover that the field is quickly wearing down. At the current rate, the field and thus the earth could be no older than 20,000 years old.
- Several measurements confirm this decay. Since measuring began in 1845, the total energy stored in the earth's magnetic field has been decaying at a rate of 5% per century. Archaeological measurements show that the field was 40% stronger in AD 1000. Recent records of the International Geomagnetic Reference Field, the most accurate ever taken, show a net energy loss of 1.4% in just three decades (1970–2000). This means that the field's energy has halved every 1,465 years or so.
- Creationists have proposed that the earth's magnetic field is caused by a freely-decaying electric current in the earth's core. This means that the electric current naturally loses energy, or "decays," as it flows through the metallic core. Though it differs from the most commonly accepted conventional model, it is consistent with our knowledge of what makes up the earth's core. Furthermore, based on what we know about the conductive properties of liquid iron, this freely decaying current would have started when the earth's outer core was formed. However, if the core were more than 20,000 years old, then the starting energy would have made the earth too hot to be covered by water, as Genesis 1:2 reveals.

# Helium in Radioactive Rocks

- During the radioactive decay of uranium and thorium contained in rocks, lots of helium is produced. Because helium is the second lightest element and a noble gas—meaning it does not combine with other atoms—it readily diffuses (leaks) out and eventually escapes into the atmosphere. Helium diffuses so rapidly that all the helium should have leaked out in less than 100,000 years. So why are these rocks still full of helium atoms?
- While drilling deep Precambrian (pre-Flood) granitic rocks in New Mexico, geologists extracted samples of zircon (zirconium silicate) crystals from different depths. The crystals contained not only uranium but also large amounts of helium.
- The hotter the rocks, the faster the helium should escape, so researchers were surprised to find that the deepest, and therefore hottest, zircons (at 387°F or 197°C) contained far more helium than expected. Up to 58% of the helium that the uranium could have ever generated was still present in the crystals.
- The helium leakage rate has been determined in several experiments. All measurements are in agreement. Helium diffuses so rapidly that all the helium in these zircon crystals should have leaked out in less than 100,000 years. The fact that so much helium is still there means they cannot be 1.5 billion years old, as uranium-lead dating suggests. Indeed, using the measured rate of helium diffusion, these pre-Flood rocks have an average “diffusion age” of only 6,000 ( $\pm$  2,000) years.

- These experimentally determined and repeatable results, based on the well-understood physical process of diffusion, thus emphatically demonstrate that these zircons are only a few thousand years old. The supposed 1.5-billion-year age is based on the unverifiable assumptions of radioisotope dating that are radically wrong.<sup>4</sup>
- Another evidence of a young earth is the low amount of helium in the atmosphere. The leakage rate of helium gas into the atmosphere has been measured. Even though some helium escapes into outer space, the amount still present is not nearly enough if the earth is over 4.5 billion years old. In fact, if we assume no helium was in the original atmosphere, all the helium would have accumulated in only 1.8 million years even from an evolutionary standpoint. But when the catastrophic Flood upheaval is factored in, which rapidly released huge amounts of helium into the atmosphere, it could have accumulated in only 6,000 years.

# Carbon-14 in Fossils, Coal, and Diamonds

- Carbon-14 (or radiocarbon) is a radioactive form of carbon that scientists use to date fossils. But it decays so quickly—with a half-life of only 5,730 years—that none is expected to remain in fossils after only a few hundred thousand years. Yet carbon-14 has been detected in “ancient” fossils—supposedly up to hundreds of millions of years old—ever since the earliest days of radiocarbon dating.
- If radiocarbon lasts only a few hundred thousand years, why is it found in all the earth’s diamonds dated at billions of years old?
- Even if every atom in the whole earth were carbon-14, they would decay so quickly that no carbon-14 would be left on earth after only 1 million years. Contrary to expectations, between 1984 and 1998 alone, the scientific literature reported carbon-14 in 70 samples that came from fossils, coal, oil, natural gas, and marble representing the fossil-bearing portion of the geologic record, supposedly spanning more than 500 million years. All contained radiocarbon. Further, analyses of fossilized wood and coal samples, supposedly spanning 32–350 million years in age, yielded ages between 20,000 and 50,000 years using carbon-14 dating. Diamonds supposedly 1–3 billion years old similarly yielded carbon-14 ages of only 55,000 years.

- Even that is too old when you realize that these ages assume that the earth's magnetic field has always been constant. But it was stronger in the past, protecting the atmosphere from solar radiation and reducing the radiocarbon production. As a result, past creatures had much less radiocarbon in their bodies, and their deaths occurred much more recently than reported!
- So the radiocarbon ages of all fossils and coal should be reduced to less than 5,000 years, matching the timing of their burial during the Flood. The age of diamonds should be reduced to the approximate time of biblical creation—about 6,000 years ago.

# Very Little Salt in the Sea

- If the world's oceans have been around for three billion years as evolutionists believe, they should be filled with vastly more salt than the oceans contain today.
- After 3 billion years, we would expect to see 70x more salt in the ocean than we see today.
- Every year rivers, glaciers, underground seepage, and atmospheric and volcanic dust dump large amounts of salts into the oceans. Consider the influx of the predominant salt, sodium chloride (common table salt). Some 458 million tons of sodium mixes into ocean water each year, but only 122 million tons (27%) is removed by other natural processes.
- If seawater originally contained no sodium (salt) and the sodium accumulated at today's rates, then today's ocean saltiness would be reached in only 42 million years—only about 1/70 the three billion years evolutionists propose. But those assumptions fail to take into account the likelihood that God created a saltwater ocean for all the sea creatures He made on Day Five. Also, the year-long global Flood cataclysm must have dumped an unprecedented amount of salt into the ocean through erosion, sedimentation, and volcanism. So today's ocean saltiness makes much better sense within the biblical timescale of about six thousand years.

# DNA in “Ancient” Bacteria

- In 2000, scientists claimed to have “resurrected” bacteria, named Lazarus bacteria, discovered in a salt crystal conventionally dated at 250 million years old. They were shocked that the bacteria’s DNA was very similar to modern bacterial DNA. If the modern bacteria were the result of 250 million years of evolution, its DNA should be very different from the Lazarus bacteria (based on known mutation rates).
- In addition, the scientists were surprised to find that the DNA was still intact after the supposed 250 million years. DNA normally breaks down quickly, even in ideal conditions. Even evolutionists agree that DNA in bacterial spores (a dormant state) should not last more than a million years. Their quandary is quite substantial.
- However, the discovery of Lazarus bacteria is not shocking or surprising when we base our expectations on the Bible accounts. For instance, Noah’s Flood likely deposited the salt beds that were home to the bacteria. If the Lazarus bacteria are only about 4,500 years old (the approximate number of years that have passed since the worldwide flood), their DNA is more likely to be intact and similar to modern bacteria.

# Not enough Stone Age skeletons

- Evolutionary anthropologists now say that Homo sapiens existed for at least 185,000 years before agriculture began, during which time the world population of humans was roughly constant, between one and ten million.
- All that time they were burying their dead, often with artifacts. By that scenario, they would have buried at least eight billion bodies.
- If the evolutionary time scale is correct, buried bones should be able to last for much longer than 200,000 years, so many of the supposed eight billion stone age skeletons should still be around (and certainly the buried artifacts).
- Yet only a few thousand have been found. This implies that the Stone Age was much shorter than evolutionists think, perhaps only a few hundred years in many areas.

# History is too short

- According to evolutionists, Stone Age Homo sapiens existed for 190,000 years before beginning to make written records about 4,000 to 5,000 years ago.
- Prehistoric man built megalithic monuments, made beautiful cave paintings, and kept records of lunar phases. Why would he wait two thousand centuries before using the same skills to record history?
- The biblical time scale is much more likely.

# Final Summary

- The major premise of Evolutionary Theory is that “The present is the key to the past.”
- Therefore processes of change that we observe now, have always been the same, and these same processes that we come to know by the scientific method are able to illuminate the past.
- The Creation model suggests that things were created and brought into existence in their fullness in an instant by God .... Fiat Creation.
- Therefore the act of Creation is radically distinct and different from the material processes that we observe today.
- Jesus demonstrates the error of Evolutionary Theory by manifesting the power of God through Fiat Creation when He performs the miracle of changing water into wine at the Wedding at Cana.