

The Earth: Fearfully and Wonderfully Made by Dr. Jay L. Wile, Ph.D.

Qualifications

- Ph.D. in Nuclear Chemistry
- University Professor 1990-1995
- NSF-sponsored scientist with >\$200,000 in research grants
- Published over 30 articles in nationally recognized peer reviewed journals
- Currently writes homeschooling and Christian apologetics materials
- No longer with Apologia

In December of 2005, Simon Parfitt and his colleagues published a paper in the prestigious science journal *Nature*. It claims that humans arrived in Northern Europe **SIGNIFICANTLY** earlier than previously believed

This conclusion was based on sharpened flints that were found. The structure of this sharpened flint shows both complexity and a purpose. Dr. William A. Dembski calls this “Specified Complexity.”

Parfitt and his colleagues say that the presence of these sharpened flints is “unequivocal” evidence of a human presence.

“Our” Galaxy – The Milky Way – Is Complex

It is a spiral galaxy, with an unusually long central bar.

Our Place in the Galaxy is Specific

- 👉 We are at the COROTATION distance – which means we orbit the center of the galaxy at the same speed as the arms of the galaxy. That way, we don’t find ourselves careening through walls of stars, as we would anywhere else.
- 👉 We orbit around the center of the galaxy in a circle. Most positions in the galaxy result in an elliptical orbit, which would put great gravitational stresses on our solar system as it gets closer to and then farther away from the center.

Our Sun is Specifically Suited to Us

- 👉 The sun is big, but not so big that it would engulf the earth.
- 👉 The sun is small, but not so small that the earth would have to orbit very close to it.
- 👉 The sun is a SINGLE star, which is very rare.
- 👉 The solar flares that come from the sun are 100 to 100 *million* times less powerful than those from stars of comparable size and mass.

The Earth is Designed for Us

- 👉 It is at the PERFECT distance from the sun. A change by even a few percent would be devastating
- 👉 It has the PERFECT mass to support an atmosphere but not crush us.
- 👉 The atmosphere has the PERFECT mix of gases to support us.

Dry air is 78% Nitrogen, 21% oxygen, and 1% many other gases, including ozone and carbon dioxide. Too much oxygen would be bad for us. It made Stevie Wonder blind and would significantly increase the risk of forest fires.

The ozone in air is poisonous, but it is absolutely necessary for life, as it blocks the sun's ultraviolet radiation. Ozone can be both poisonous and necessary for life because it is mostly concentrated in the ozone layer, which is higher than the tallest mountain on earth.

Carbon dioxide (and other chemicals, like water vapor) participate in the Greenhouse Effect. Without this, the average temperature of the earth would be too low to support life.

- 👉 It has a strong (but not too strong) magnetic field to protect us.

Atomic Structure

The atom is made of three particles: protons, neutrons, and electrons.

- 👉 Neutron / Proton mass ratio **cannot** vary more than 0.2%
- 👉 Electron / Proton mass ratio **cannot** vary more than 2%
- 👉 Electron / Proton charge difference **must** be less than 0.00000001%

Atoms link together to form molecules, which make up most of the substances we see.

One class of molecules is called amino acids. Amino acids are critical in the chemistry of life. Amino acids can link together to form proteins. One of the **SIMPLEST** proteins of life, ribonuclease. It contains 124 amino acids linked together in a precise configuration. Chance of this occurring by random processes: 1 in 10^{152}

The Genetic Code

It is based on four different nucleotide bases (adenine, thymine, guanine, and cytosine) taken three at a time. There are MANY other ways this could be constructed. Freeland and Hurst suggest 10^{18} possibilities. Of those, they designed 1,000,000. Nature's code was significantly more efficient than any of the codes they designed.