

[Video Link → Hydroplate Theory: The Origin of Earth's Radioactivity](#)

Like Lesson 9, this lesson is an expansion on a specific section from the Dr. Walt Brown's Hydroplate Theory presented in Lesson 8. You may want to watch Lesson 8 first.

★ 0:15 Many find it hard to understand how the flood could have been global. The Hydroplate Theory appears to be the best scientific explanation yet put forth of this truly catastrophic global event.

□ 0:34 The evidence for or against a global flood is a foundational issue in the origins debate.

□ 0:45 This presentation covers what may be the most difficult to grasp portion of Walt Brown's Hydroplate Theory -- the origin of Earth's radioactivity.

□ 0:57 We are commonly taught that earth was made from stardust -- left-over star material that was expelled from a super nova. This assumption gave rise to the idea that radioactive decay of certain elements created by these stars (another big assumption) could be used to measure the age of the earth. Earth's radioactivity is often given as the reason why the earth has not solidified over billions of years -- and why there is much geothermal heat coming up from below.

□ 1:24 While that may seem a satisfactory explanation for these issues, there is much contradictory evidence.

□ 1:47 The Big Bang -- said to have occurred 13-14 billion years ago -- is thought to have produced only the lightest three elements of the 94 found in nature: H, He, Li (hydrogen, helium, and lithium).

□ 2:04 Super Nova (nucleosynthesis) Chemical evolution theory maintains that the remaining elements were cooked in stars and ultimately produced and spread throughout the universe when they ran out of fuel and exploded as super novas.

□ 2:17 It is assumed that our solar system, and the radioactive elements found on the earth, gravitationally accreted from the debris of this explosion. Heat generated from the impacts of this accretion supposedly resulted in a molten earth for approximately 200 million years.

□ 2:34 Radiometric Dating After 200 million years accretion ceased so the liquid cooled and heat was radiated into space, forming a crust. The radioactive parent elements trapped in and on the earth then decayed into daughter elements we find today. Today, the ratio of the number of parent to daughter atoms is measured, and the decay half-life is factored in to arrive at a radiometric date for any given rock sample on earth. This assumption about the past is the foundational rationale for old earth theory.

□ 3:05 The problem is that the physics have not been worked out to show how stars could do it, and other planets around earth, supposedly made from similar "star stuff" have very different characteristics.

□ 3:41 Binding Energy holds an atom and all its positively-charged protons together.

□ 4:09 There is a peak of binding energy at 60 nucleons (iron). After this the binding energy for heavier elements goes back down -- causing a major problem for chemical evolution theory.

□ 5:14 One of the great problems in physics: How were the heavy elements from iron to uranium made?

□ 5:40 Binding Energy: Strong Nuclear Force vs. Coulomb Force

□ 6:25 Even the tremendous energy inside a star cannot overcome this Coulomb force for heavy elements. Binding energy drops as the nucleus increases in diameter. This is why heavy elements like uranium are radioactive.

□ 7:04 Fission

□ 7:13 Alpha/Beta Decay

□ 7:45 Too much helium in zircons

□ 8:02 Too much helium: only 4000 - 8000 years old, instead of 1,500,000,000 years old?

□ 8:21 If supernovae did not cause nucleosynthesis of heavy elements, what did? 1. Where is earth's radioactivity located?

□ 8:31 Heat flow and radioactivity in the evolutionary model. Billions of years should = uniform heat distribution

□ 9:30 Deuterium/Water Ratio (ratio of heavy hydrogen to normal hydrogen)

□ 9:58 Are nuclear reactions in the earth's core the cause of geothermal heat? Seismic data seems to say no.

□ 10:50 1, Radioactivity is located in shallow concentrated deposits in the largely granite continents of the earth's crust -- not deep in the core of the earth.

□ 11:06 What conditions could overcome coulomb force? --> Z-Pinch --> Shock Collapse

□ 11:20 Lightning = Plasma Nuclear reactions and radioactive elements are produced by the lightning.

□ 12:03 Z-Pinch -- How Lightning Creates Radioactive Elements The closer the spacing, the stronger the pinching force.

□ 13:45 Z-Pinch = Nuclear Fusion

□ 14:09 Ukraine's Electrical Fusion Proton 21 Lab can produce all the elements of the periodic table and far beyond.

Stars are not capable of going beyond iron.

- 14:51 How the Z-Pinch process works. "Cold Packing" explains how the earth could survive the heat generated as flood events created radioactive elements. This has been demonstrated by the Proton 21 Laboratory.
- 16:35 Instability of Elements
- 17:19 Proton/Neutron Ratio
- 17:43 Stable and Unstable Isotopes
- 19:31 So what this have to do with measuring the age of the earth?
- 20:00 So how
- 20:11 If powerful electrical events that were a consequence of a global flood produced radioactive elements. . . - Radioactive mysteries can be explained: (concentration in continents, spotty surface heat) - Radioactive dates are invalid. We can measure the current ratios of parent-daughter elements, but the assumptions needed to generate a date from those ratios are wrong.
- 20:16 But how does Hydroplate Theory tie earth's radioactivity to a recent global flood?
- 20:21 Granite There is a high quartz content in granite.
- 20:38 Piezoelectric Effect in Quartz
- 21:04 Piezoelectric Quartz Device
- 21:22 Electric Earthquakes
- 21:49 Flutter
- 22:25 What evidence is there that continents once fluttered? Lineaments - very long parallel fractures observed in earth's continents
- 22:42 Possible explanations of lineaments examined - Compression - Shear - Horizontal Tension - Tension Due to Bending
- 23:35 Flutter = Bending
- 24:28 Lightning, Nuclear Energy, & Chondrules
- 24:57 Chondrule Formstion
- 25:36 Z-Pinch and Shock Collapse in Granite
- 26:46 Light nuclei that make up granite were Z-pinched to create an abundant variety of radioactive elements.
- 27:26 Nuclear Energy -Bremsstrahlung Radiation -Free Neutrons -ACCELERATED Radioactive Decay That Was Orders of Magnitude Faster Than Decay Rates Measured Today! --> The ratios of radioactive elements and daughter elements have nothing to do with age.
- 28:57 What happened between earth's crust and the waters below.
- 29:22 The objection to the Hydroplate Theory that the heat generated would vaporize earth's crust is discussed.
- 30:22 Efficient Heat Transfer
- 31:23 The Effect of Heat Transfer to the Supercritical Water
- 32:39 Did chondrules form in space? Was lightning present in outer space?
- 33:12 Acceleration of a fluid Instead of inches, what if a fluid accelerated for thousands of miles?
- 34:16 Pressure Down = Pressure Up
- 34:39 Origin of some inter-continental seas
- 34:55 Origin of some inter-continental seas' thick salt/mineral floors
- 35:35 Why comets have twice as much deuterium as today's oceans
- 36:23 www.creation-science.com/onlinebook/ See section on "The Origin of Earth's Radioactivity" in Dr. Walter Brown's book, IN THE BEGINNING.

