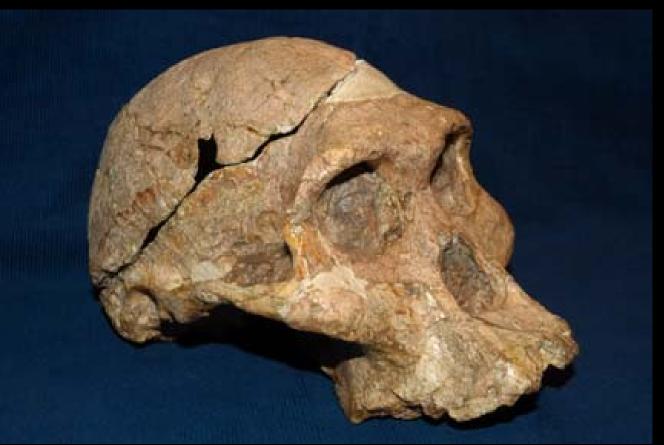
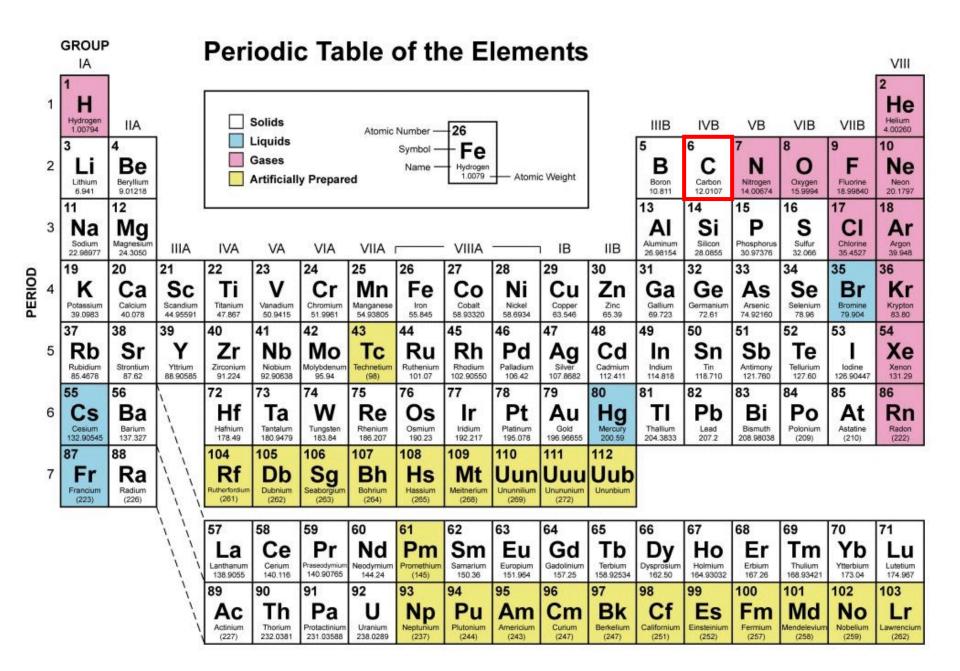
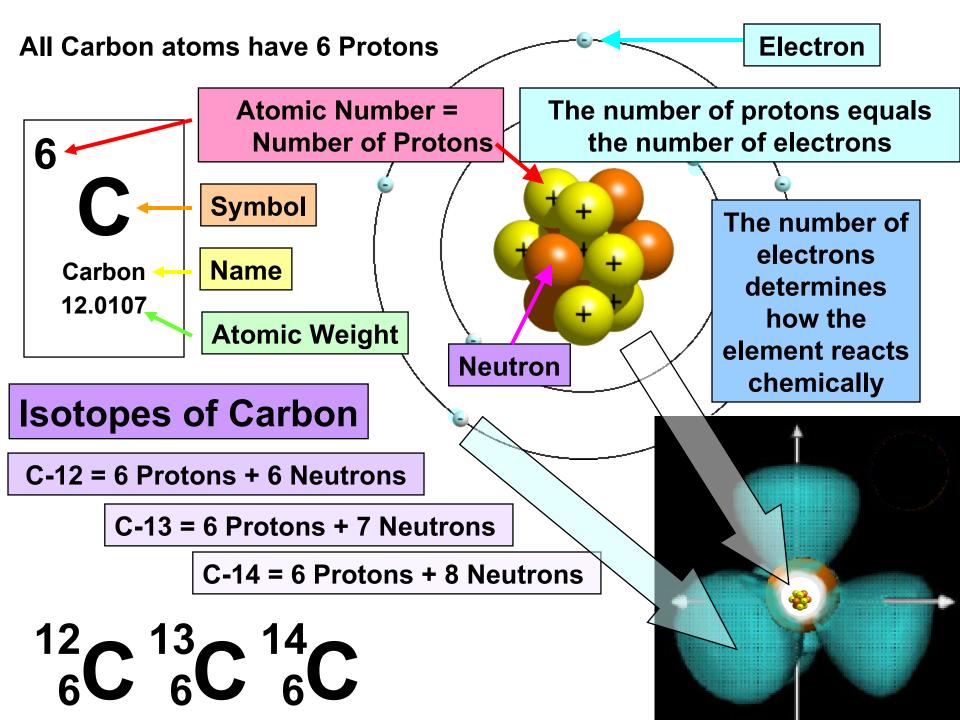
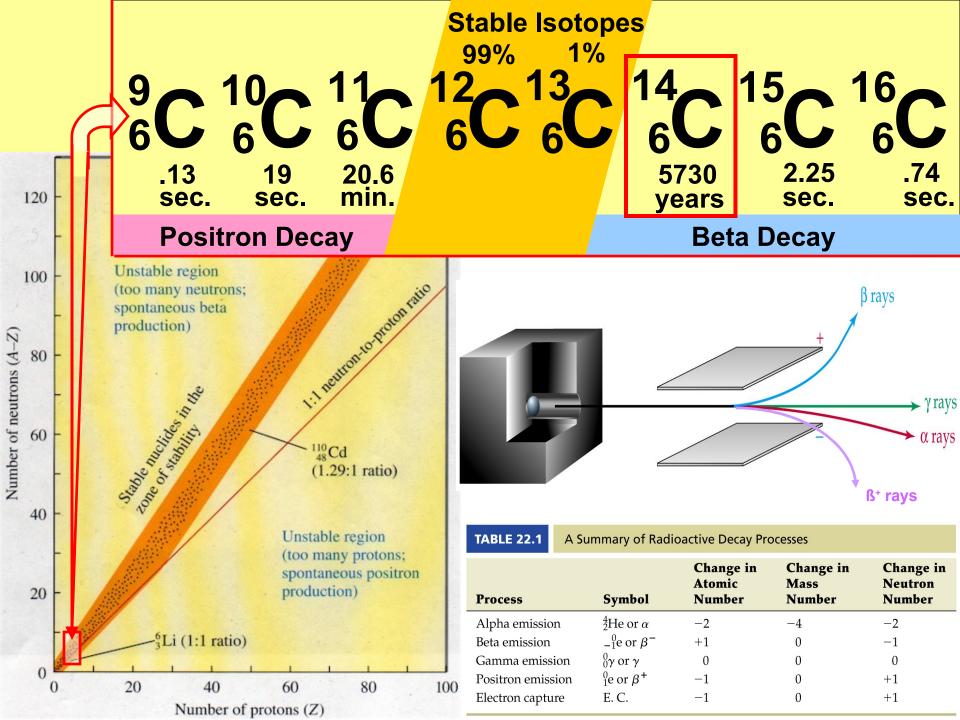
## Carbon - 14 Dating

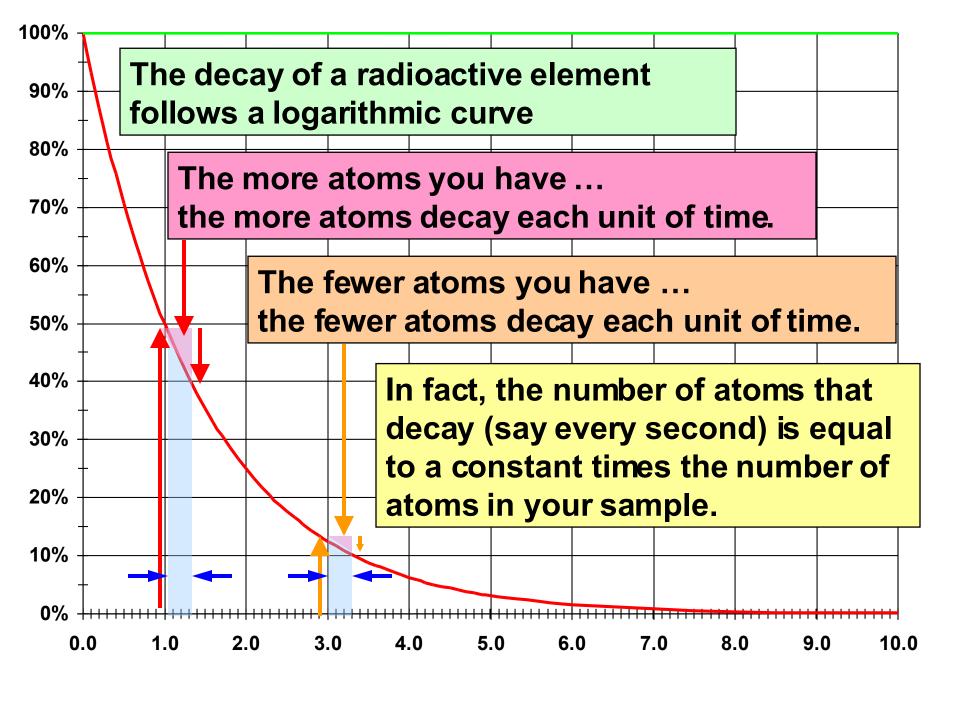


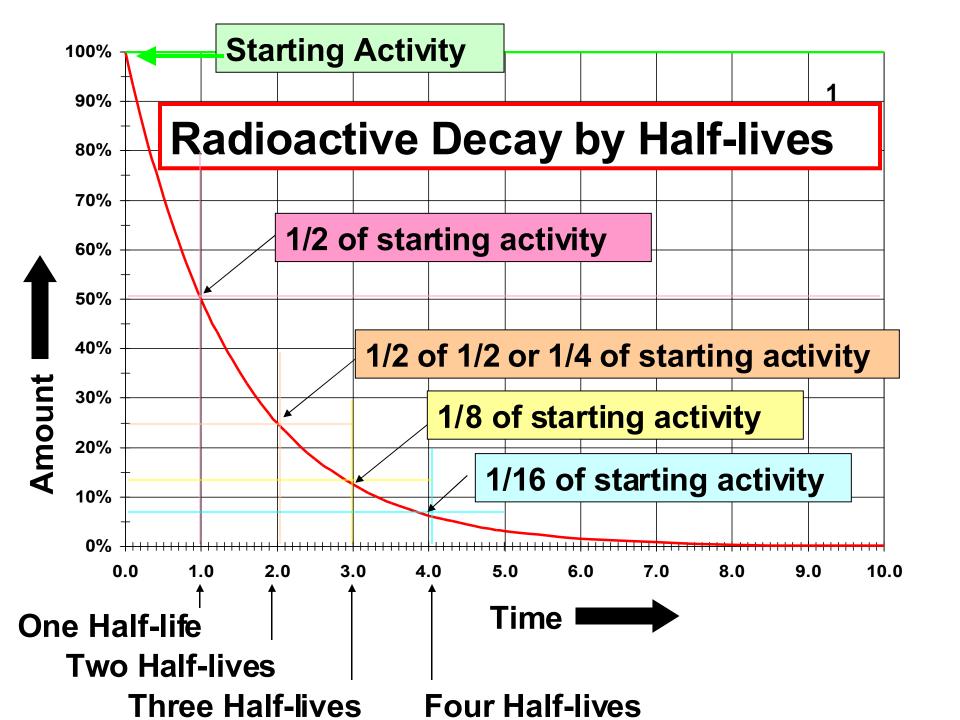
By Doug Hove CreationCD@Hotmail.com

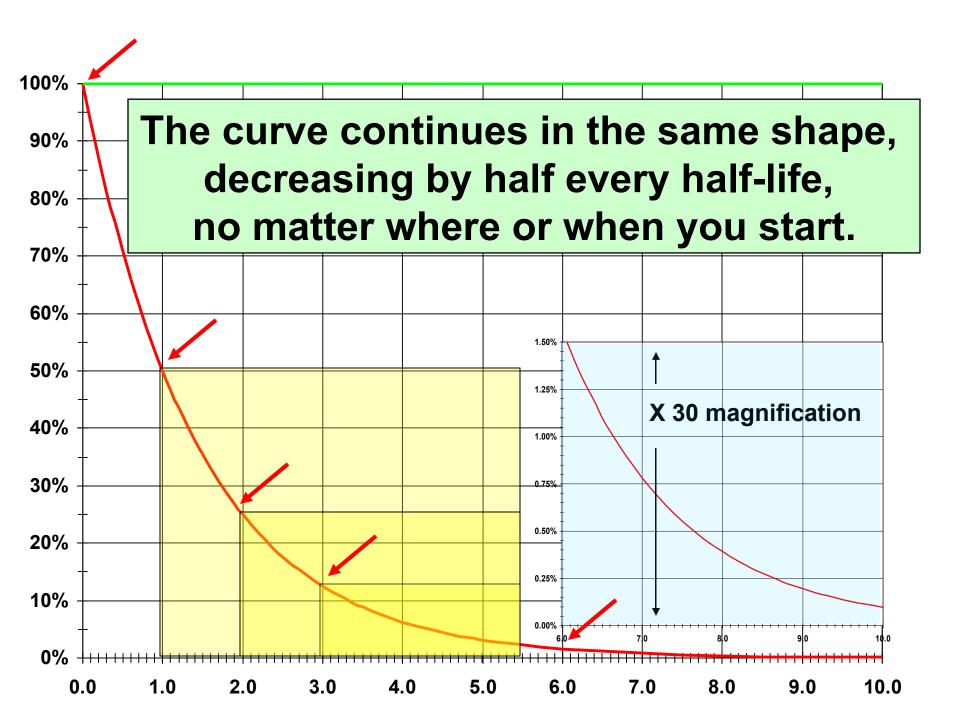


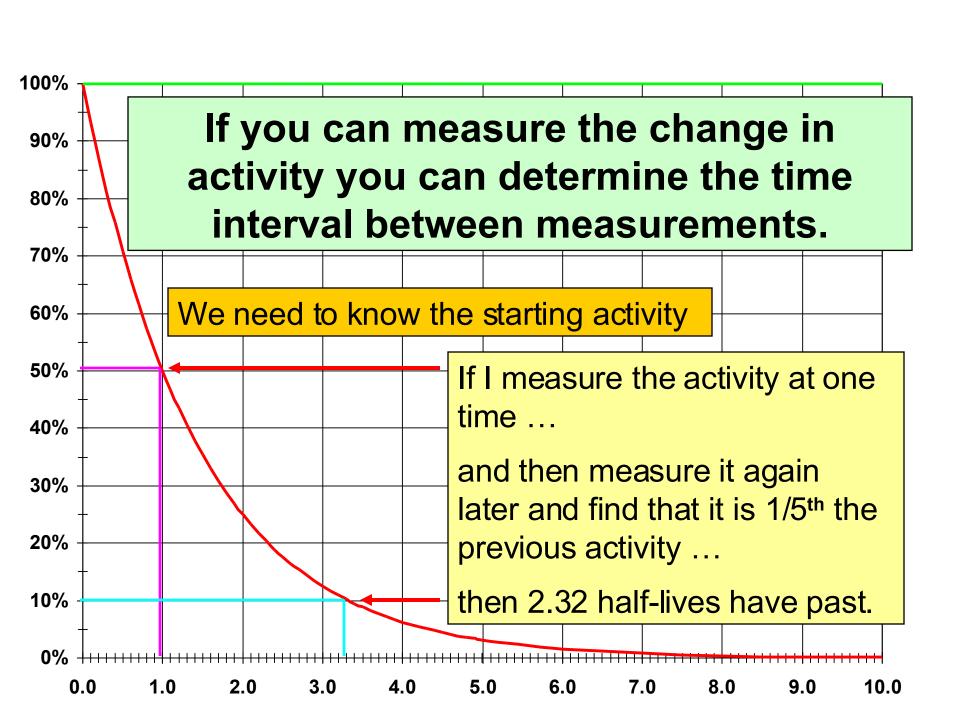


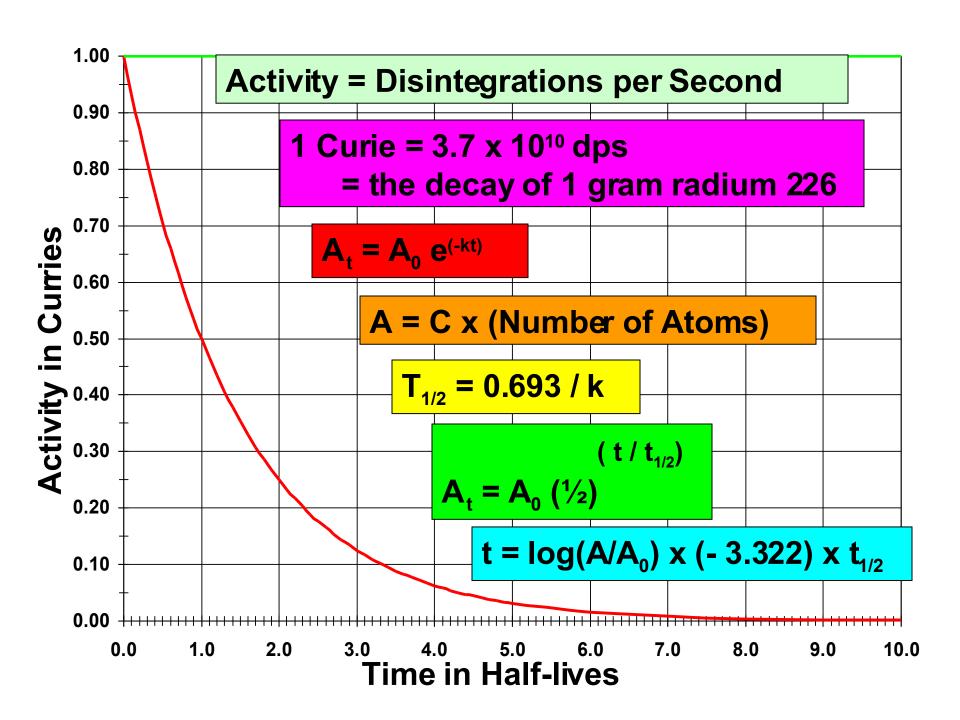












1 5 9 13 17 21 25 29 33 Time (or number of Shakes) Place some dice on a shaker table and begin to shake them.

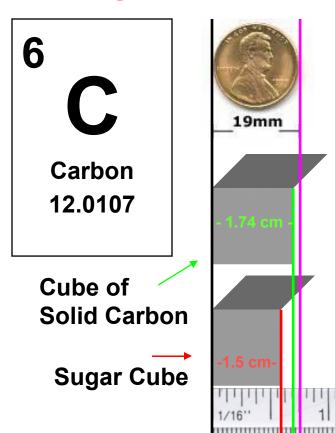
If a die rolls a 6 it explodes and becomes a blue cube.

As time goes on you have less and less dice and less and less explosions each second.

We can never tell when any one dice will explode but we can predict how many dice will be left after so many shakes.

The greater the number of dice we use in our experiment the closer our prediction will be to the actual number of dice left.

### **Many Atoms**



Each atom of carbon weighs 12.0107 Daltons or AMU's on average.

12.0107 grams of solid carbon would be a cube 1.74 cm across.

This would contain about 6.022 x 10<sup>23</sup> atoms (Avogadro's number)

602,200,000,000,000,000,000 or  $6.022 \times 10^{23}$ 

The Earth contains 3.821 x 10<sup>22</sup> cubic feet

It would all decay to Nitrogen – 14 in less than 1 million years

So where does Carbon-14 come from ?

Cosmic Rays enter the Atmosphere causing molecules to fly apart.

The resulting Neutrons, collide into N 14 Atoms.



$${}^{14}_{7}N + {}^{1}_{0}n \longrightarrow {}^{14}_{6}C + {}^{1}_{1}p$$

$$t_{1/2} = 5,730 \text{ years}$$

$$^{14}_{6}C \longrightarrow {}^{0}_{-1}\beta + {}^{14}_{7}N$$



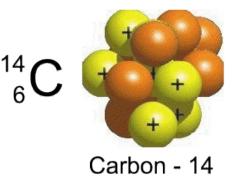
#### Nitrogen - 14



$${}^{14}_{7}N + {}^{1}_{0}n \longrightarrow {}^{14}_{6}C + {}^{1}_{1}p$$

$${}^{14}_{6}C \longrightarrow {}^{14}_{7}N + {}^{0}_{-1}\beta^{-1}$$

$$t_{\frac{1}{2}}5730 \text{ years}$$



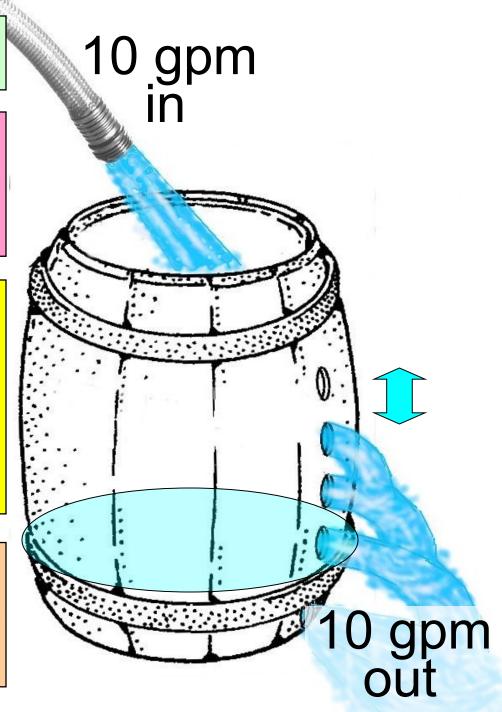
Unstable 5,730 year half-life

### Equilibrium

If the hose adds water at a constant rate of 10 gallons per minute ...

Then the amount of water in the barrel will rise until it reaches the point where 10 gallons per minute leaks out ...

Then the amount of water in the barrel will remain constant.

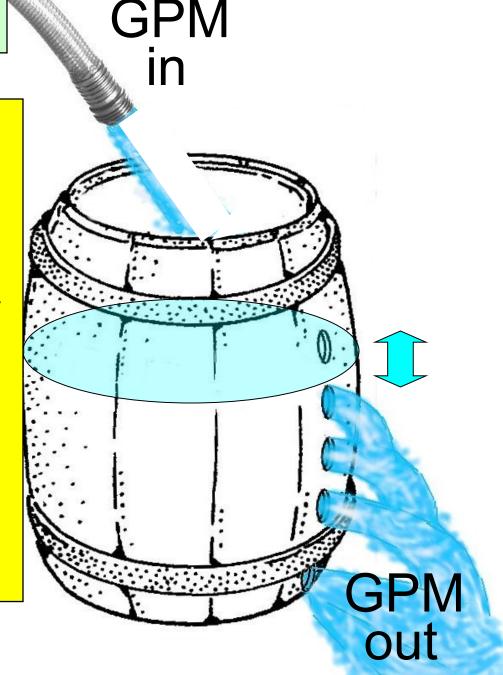


## Equilibrium

If the hose adds more or less water per minute ...

the amount of water in the barrel will increase or decrease ...

until the amount leaving the barrel once again equals the amount entering the barrel.



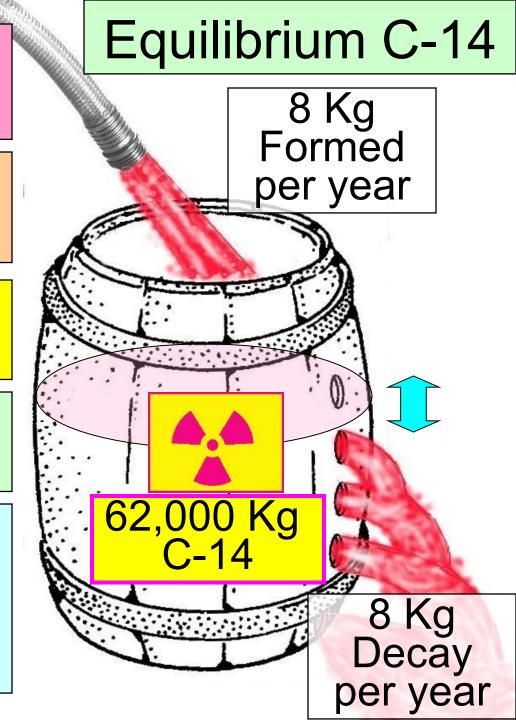
Cosmic rays produce about 8 Kilograms of C-14 per year.

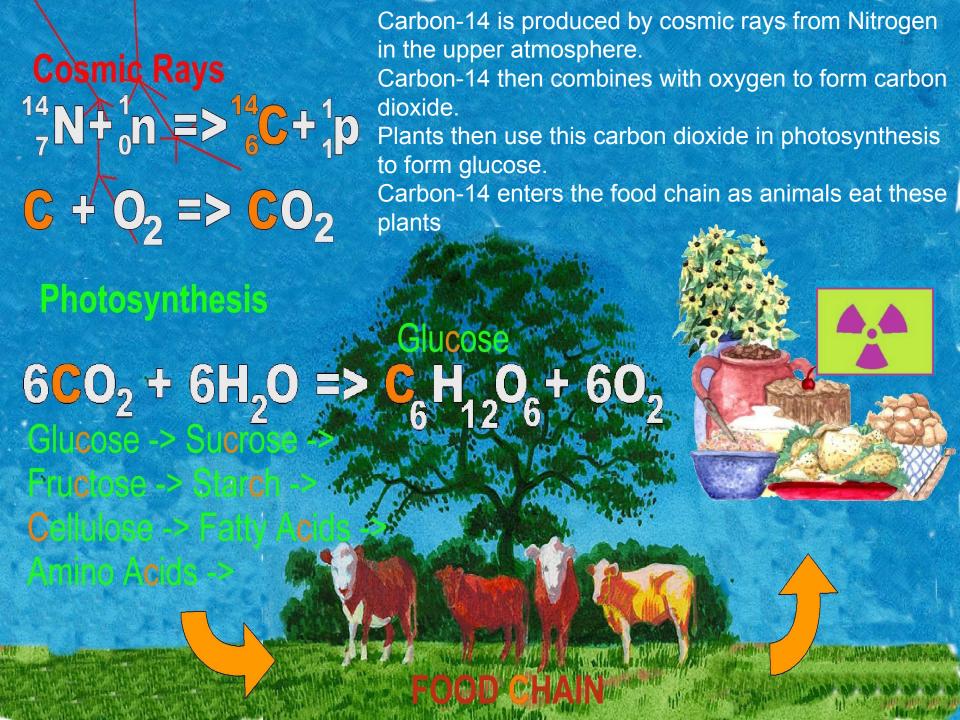
This rate is assumed to be constant for the past few million years.

If 50% of C-14 decays in 5,370 years then ...

0.013 % of C-14 decays per year.

When the amount of C-14 reaches 62,000 Kg then 8 Kg will decay per year.

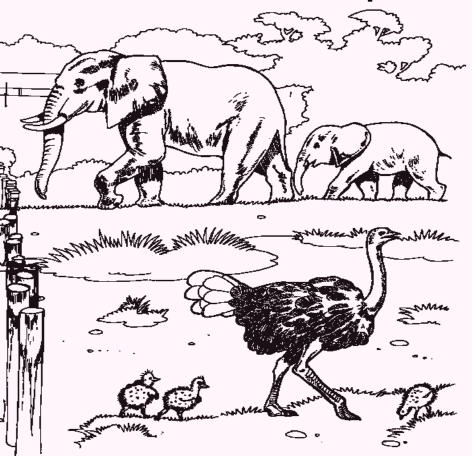






62,000 Kg's of Carbon 14 in

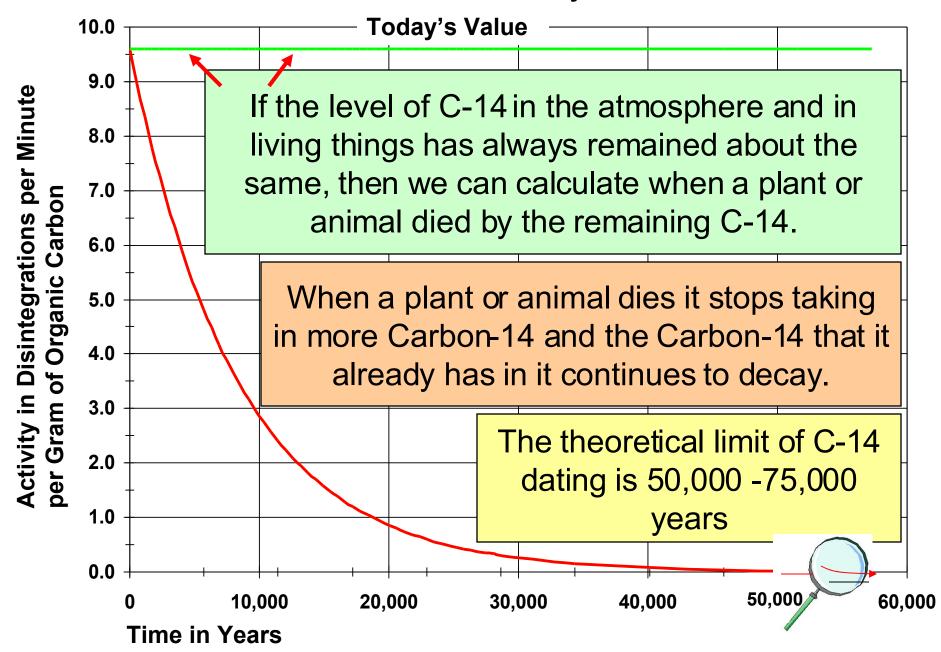
In 75,000,000,000,000,000 Kg's of Carbon in the Biosphere



Is equivalent to
1 drop of water
in 24
Olympic size
swimming pools



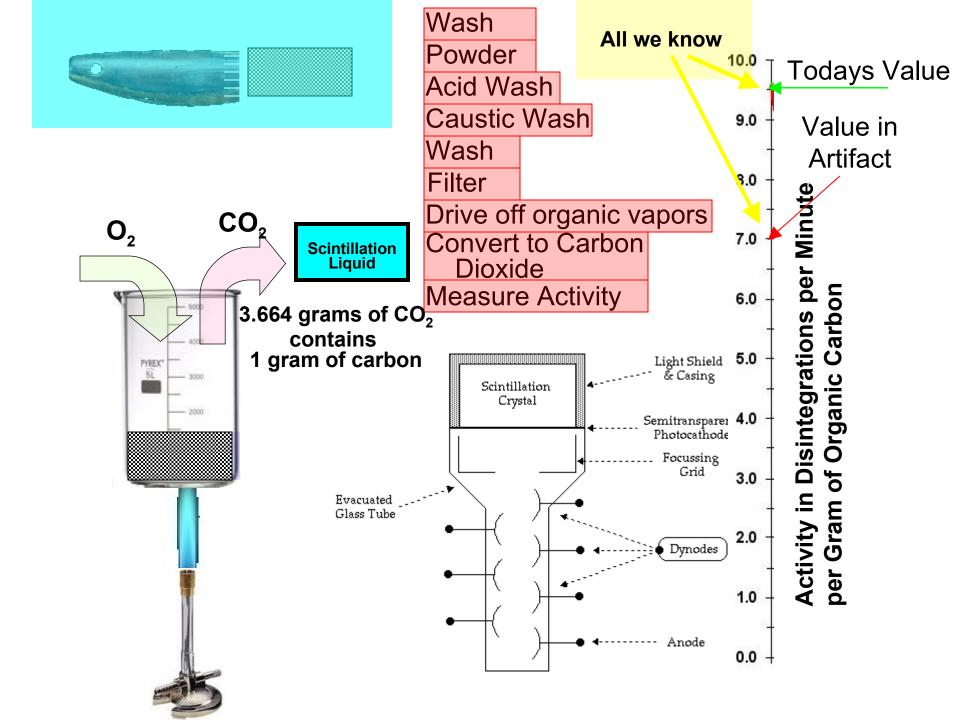
#### **Carbon-14 Radioactive Decay Curve**



#### GEOLOGIC TIME SCALE

| ERA                     | DOIRBR   | EPOCH ]  | SUCCESSION OF UPE  | INDEX FOSSILS  |
|-------------------------|--|--|--|--|
| CEMPZOIC<br>OCENI We    | QUATERNARY<br>3-1 Millon Years<br>Fibe of Man  | Recont<br>Inside-<br>care                              |  | METTI A METERS A   |
|                         | TERTIARY<br>62 Million Years<br>Filso of Mammals   | Plocase<br>Microno<br>Oligocana<br>Locana<br>Pulgucana |  | Salver and State of S |
| MESCACIO<br>miche Me    | CRETACEOUS 72 Million Years Modern seed bearing plants, Dinosaurs                          | 303  | PINI   | anner Company  |
|                         | JURASSIC<br>48 Million Years<br>First brids  | 2  |  | and the constant   |
|                         | THIABSK:<br>49 Million Years<br>(Typista, tra) decoasura                                   | 医肾气  |  | Con server   |
|                         | PERMIAN<br>50 Willon Years<br>First reputes  | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )                | All OF THE SEC   | OPTION NUMBER  |
|                         | penssylvanian<br>30 Milion Years<br>3 Frist resocts  | sam Sen  |  | B CONTROL EUR  |
| PALEOZONC<br>WASHING AS | # PENNSYLVANIAN ### 39 Million Years #### Prist maccis ################################### | W 3  | District Statement of the statement of t | With the state of  |
|                         | DEVIDAÇÃM<br>60 Million Yeors<br>First seed plants,<br>certifape hati                      | 1 h  | . Oze 5  | COUNTRY TO   |
|                         | SULURIAN<br>29 Million Years<br>Partiest band animals                                      | 46.00  |  | THE THE SECOND S |
|                         | OHDOVICIAN<br>75 Million Years<br>Early bory 1sh   | W.   |  | MINTERS AND AND ADDRESS OF THE PARTY OF THE  |
|                         | CAMBRIAN<br>100 William Years<br>Incurishnale animals,<br>Brachiopoot, Triobles            | (6)  | ALLEN CETTON (E)   | PARTIES THE  |
|                         | PRECAMBRIAN Very few lessils present (budgers-alose-potenti)                               |  | THE COURSE   | 4D   |

Carbon-14
with a
half life of
5,730 years
can only be
used to
date back
50,000 –
75,000
years.



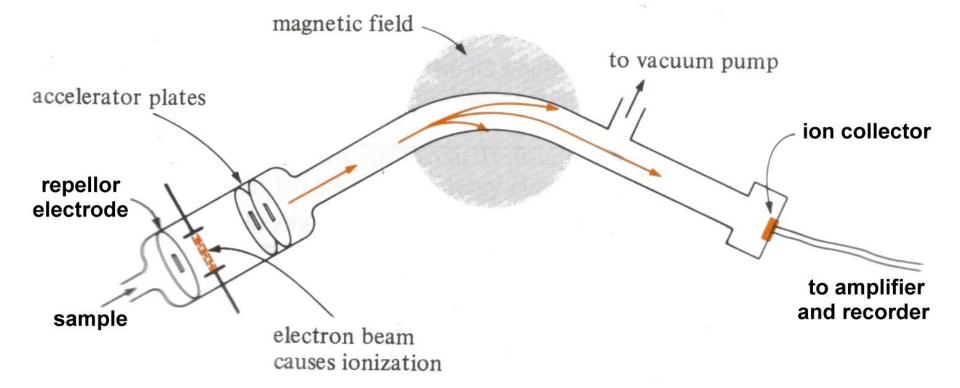
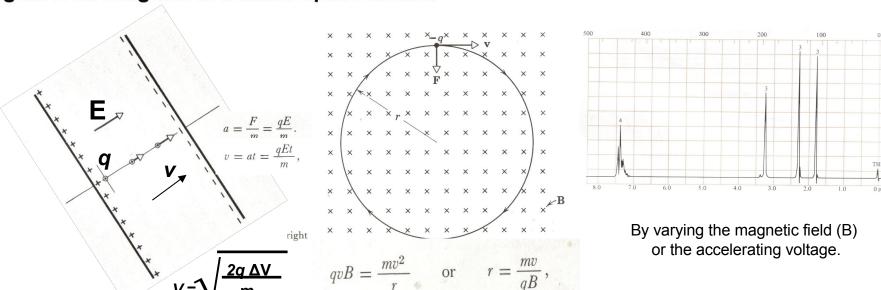
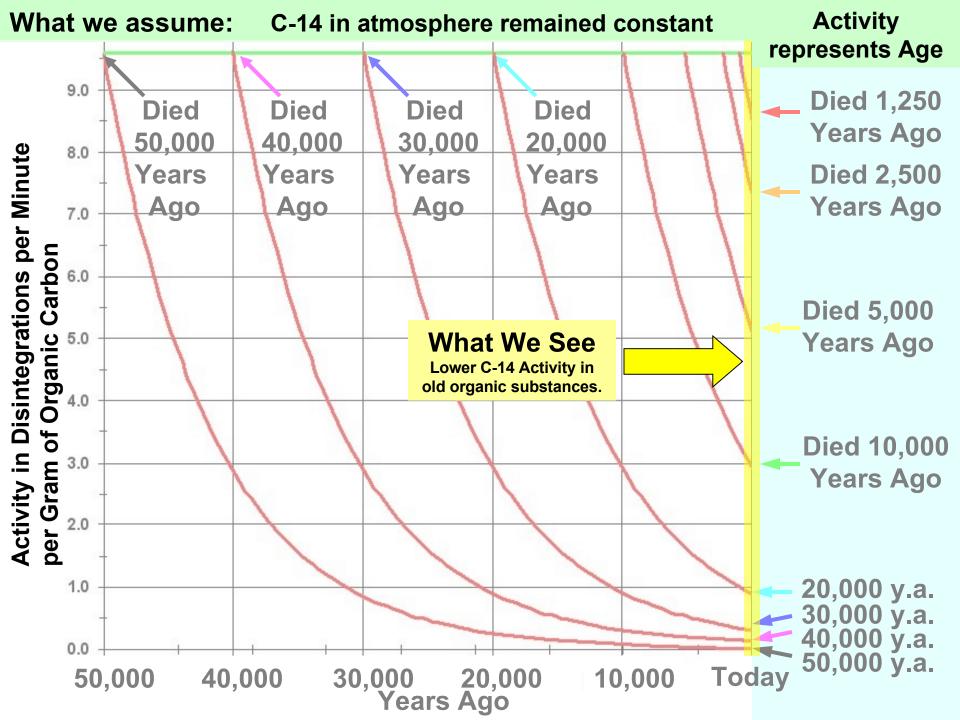
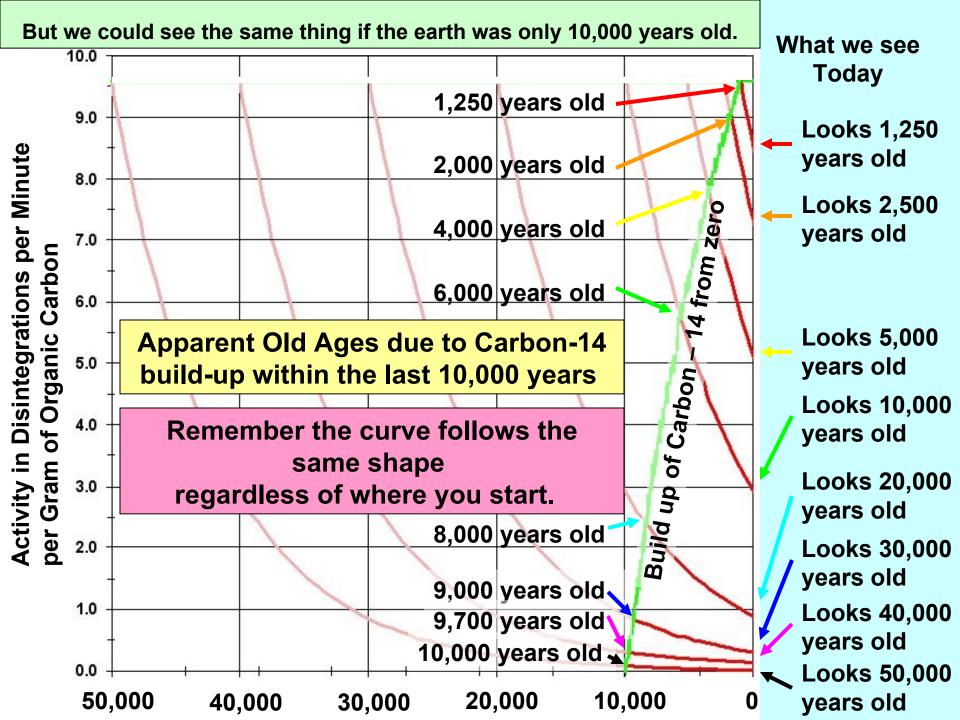


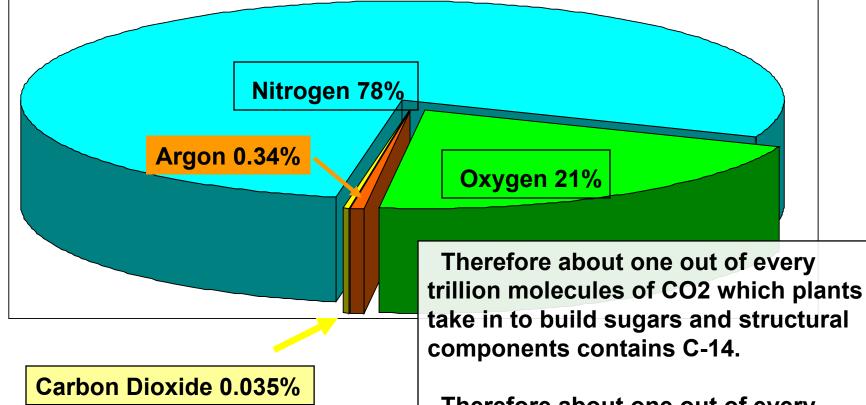
Figure 21.9 Diagram of a mass spectrometer







## Composition of Atmosphere



About I in a trillion molecules of Carbon Dioxide contain Carbon -14

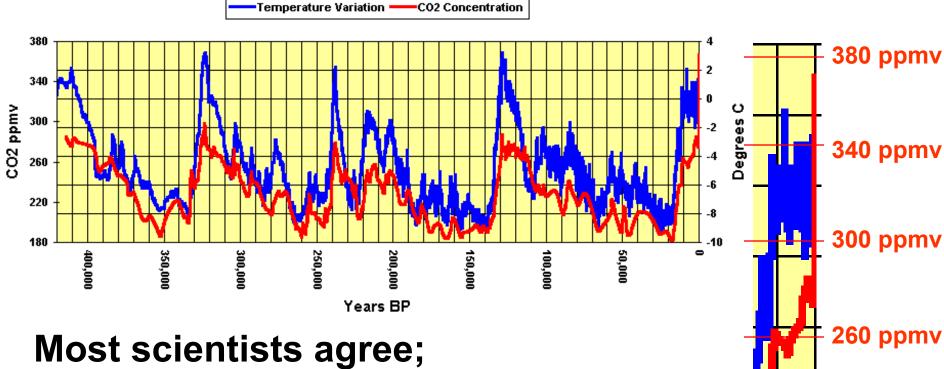
That's 1: 1,000,000,000,000

Therefore about one out of every trillion molecules of carbon in the plants that animals eat is C-14.

Therefore about one out of every trillion molecules of carbon in animals is C-14.

#### What if there was more CO<sub>2</sub> in the ancient atmosphere to mix the Carbon -14 with 9.0 A 10,000 year 8.0 1.5 trillion: 1 C-12 to C-14 old sample could look: 7.0 0.03% CO<sub>2</sub> 0.06% 6.0 0.12% CO<sub>2</sub> CO<sub>2</sub> 2 trillion: 1 C-12 to C-14 5.0 4.0 3.0 4 trillion: 1 C-12 to C-14 PYREX" 12,500 years old 5 trillion: 1 C-12 to C-14 0.15% 2.0 CO2 15,000 years old 10 trillion : 1 C-12 to C-14 21,000 years old 23,000 years old 1.0 0.3% CO<sub>2</sub> 29,000 years old 0.0 30,000 50,000 40,000 20,000 10,000

#### Antarctic Ice Core Data 1



Most scientists agree; CO<sub>2</sub> levels have changed over time.

They think CO2 levels were ½ of today's value 10,000 years ago but that's not what we see reflected in 10,000 y.a. 0 carbon-14 dating.

**220** ppmv



## Yale University Virginia Tech

www.sciencedaily.com/releases/2005/06/050622134142.htm

...based on calibration of carbon-containing compounds produced by ancient sea surface algae that were recently isolated in deep sea drill cores ... 45 - 34 million years ago the atmospheric carbon dioxide level was up to five times greater than today...

www.sciencedaily.com/releases/2003/09/030918092804.htm

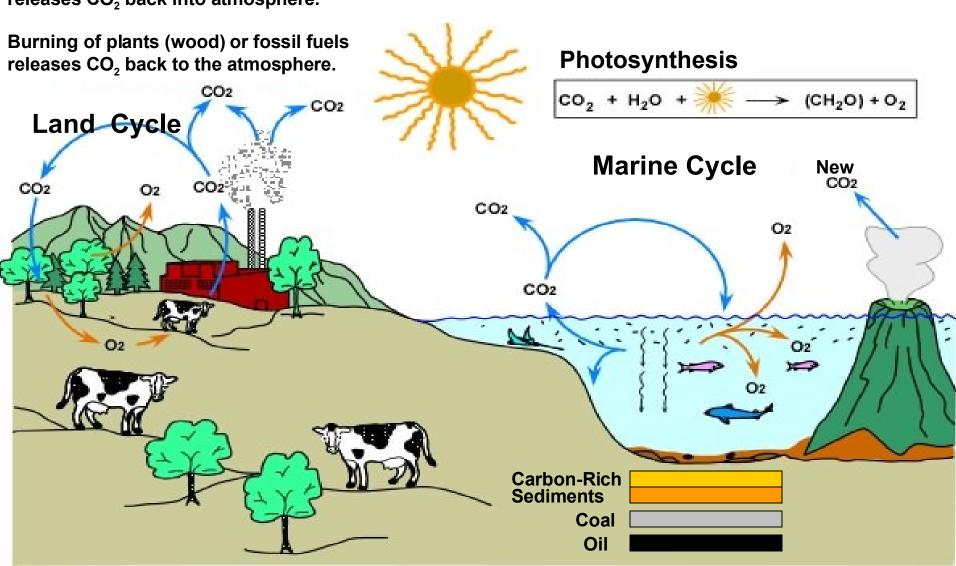
Atmospheric CO2 level 1.4 billion years ago was at least 10 to 200 times greater than today...according tocarbon-12 versus carbon-13... studies on the microscopic fossil Dictyosphaera delicata from Proterozoic shales...

Plants turn CO<sub>2</sub> into organic molecules.

Plants and animals release CO<sub>2</sub> as they convert sugars to energy.

Decomposition of plants and animals releases CO<sub>2</sub> back into atmosphere.

Carbon Dioxide is stored in plants and animals and then some returns to the atmosphere.



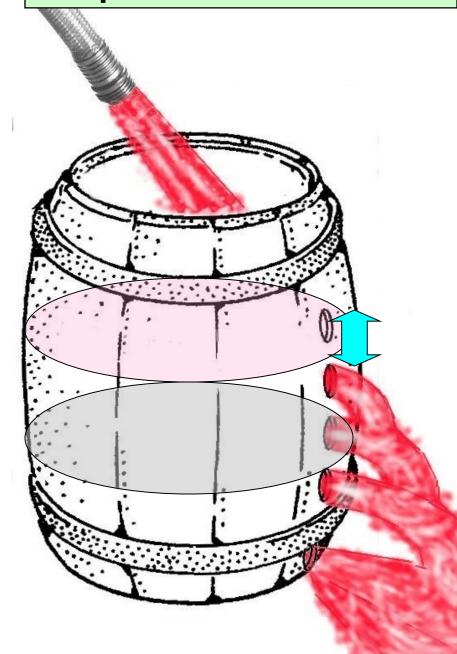
Carbon fixed by plants is returned to the air as CO<sub>2</sub> by respiration in plants and animals and by the decomposition of dead plants and animals

A large part of the C-14 in the biosphere is that which is contained in plant and animal bodies

What if a large portion of these plants and animals were suddenly buried?

C-14 in the atmosphere and in the remaining plants and animals would begin to rise.

### Equilibrium C-14



## 39 Trillion Metric Tons of Carbon in the Biosphere Today

6,820 Trillion Metric Tons of Carbon buried as Coal and Oil

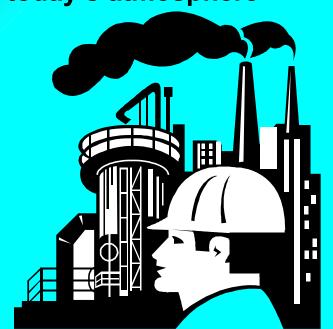
20,000 Trillion metric Tons of Carbon buried in the Geologic Column as Calcium Carbonate

All this buried carbon came from the atmosphere.

The Amount of Carbon-14 in today's atmosphere is not used to as the starting point for Carbon-14 analysis.

- 1. Today's atmosphere contains too much Carbon Dioxide from industry
- 2. The Carbon Dioxide released released by burning fossil fuels has too little Carbon-14 because coal, oil and natural gas contain very little Carbon-14.

3. Atomic testing has doubled the amount of carbon 14 in today's atmosphere



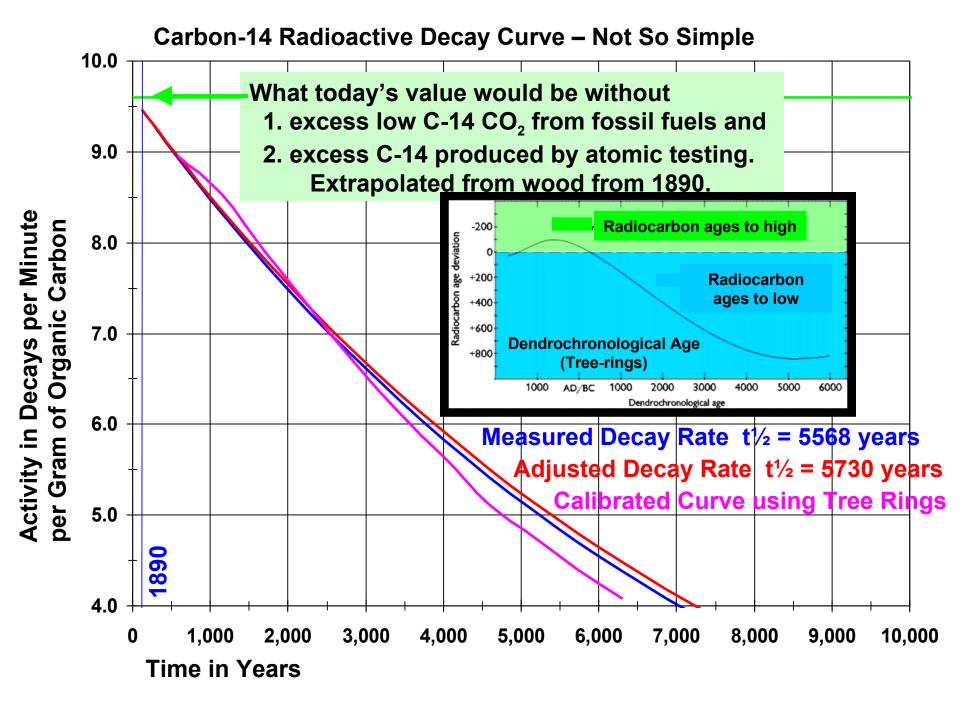
So wood known to be from 1890 is used as the starting point for Carbon14 analysis.



### **Problem?**

- C14 formation and decay is not in equilibrium today
- Radiocarbon forming 28% 37% faster than it is decaying

Melvin A. Cook, 'No equilibrium Radiocarbon Dating Substantiated', Vol. 2, Pittsburgh, 1986, pp. 59-68



## Why do samples that are thought to be millions or 100's of millions of years old consistantly show detectable Carbon-14?

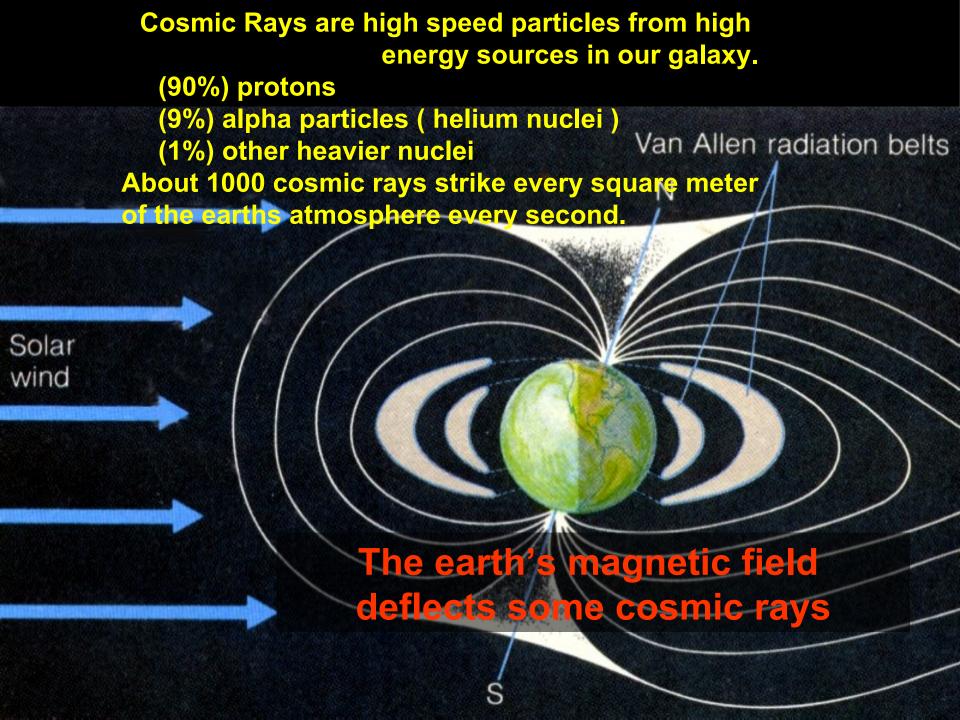
| Sample  | Equivalent C-<br>14 Age | C-14/C-12 Ratio<br>re 1950 A.D.<br>Standard | Excess Over<br>Machine<br>Background |
|---|-------------------------|---|--------------------------------------|
| Machine Background without a sample   | 60,000 - 73,000         | .0007000015                                 | _                                    |
| Unprocessed Finland<br>Bedrock  | 63,500 ±2,000           | .00046±.00011                               | 0                                    |
| Unprocessed Meteorite   | 56,500 ±1,500           | .00108±.00020                               | ca00040                              |
| Unprocessed Natural Graphite  | 54,000 - 64,000         | .0014600043                                 | .00080 - 0                           |
| "Infinite" Age Samples:<br>anthracite coal, bone,<br>calcite, graphite,<br>limestone, shell, wood | 40,000 - 52,000         | .0079200185                                 | .00720011                            |

AMS Data for "Infinite" C-14 Age Samples. Data from seven laboratories reporting in *Radiocarbon* 28(2A):177-244

### Why is there so much radiocarbon?

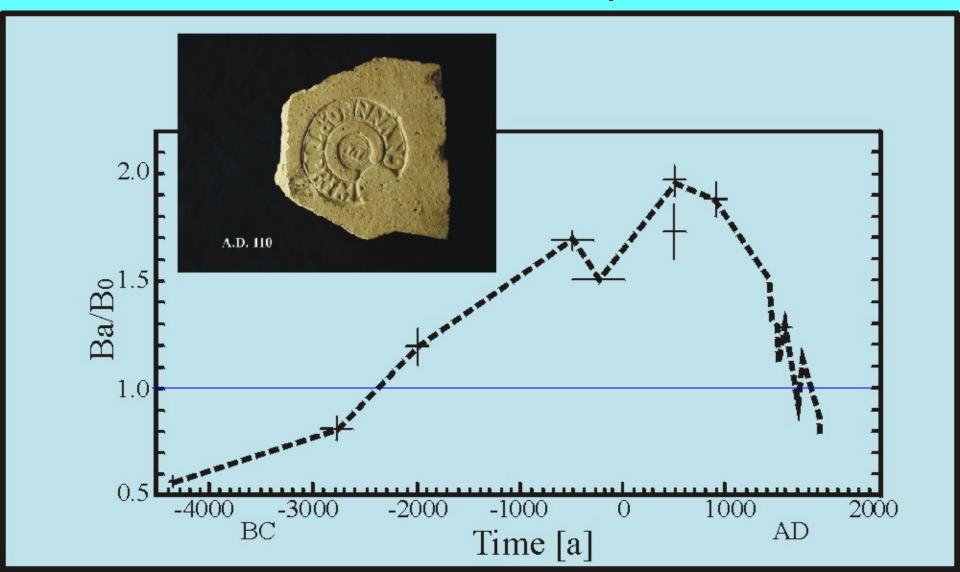
| Material               | Residual Carbon-14<br>( % of modern C-14 ) |
|------------------------|--|
| Anthracite Coal        | 0.44 +/- 0.13                              |
| Fossilized wood        | 0.21 +/- 0.02                              |
| Natural Gas            | 0.17 +/-0.03                               |
| Shell (Mytilus edulis) | 0.13 +/- 0.03                              |
| Graphite               | 0.1 +/- 0.01                               |
| Petroleum              | 0.1 +/- 0.05                               |
| Whale bone             | 0.18 +/-0.03                               |
| Charred wood           | 0.38 +/- 0.05                              |
| Wood                   | 0.46 +/- 0.03                              |
| Marble                 | 0.26 +/- 0.02                              |
| Fossil carbon dioxide  | 0.21 +/-0.06                               |

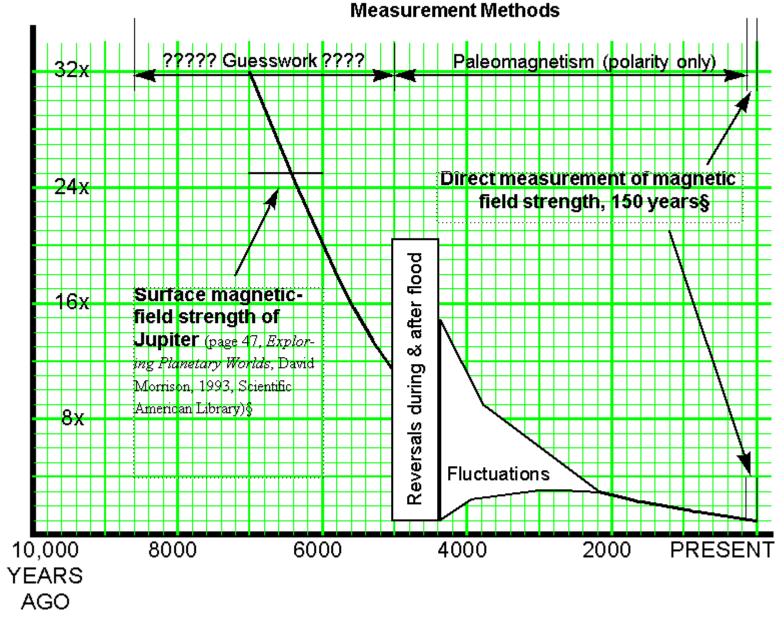
This astounding evidence for a young earth is simply ignored!



Scientists believe that the Earth's magnetic field has varied from  $\frac{1}{2}$  to 2 times the present value in the past 6,000 years.

This would affect how much cosmic radiation strikes the atmosphere and how much Carbon – 14 is produced.





History of Earth's Magnetic Field - Humphrey Model

## Has any real scientist ever doubted Carbon -14 Dating?

"If a C-14 date supports our theories, we put it in the main text. If it does not entirely contradict them, we put it in a footnote. And if it is completely 'out of date', we just drop it."

T. Save-Soderbergh and I.U. Olsson (Institute of Egyptology and Institute of Physics respectively, Univ. of Uppsala, Sweden), C-14 dating and Egyptian chronology in Radiocarbon Variations and Absolute Chronology", *Proceedings of the twelfth Nobel Symposium*, New York 1970, p. 35

"No matter how 'us eful' it is, though, the radiocarbon method is still not capable of yielding accurate and reliable results. There are gross discrepancies, the chronology is uneven and relative, and the accepted dates are actually selected dates. This whole blessed thing is nothing but 13th-century alchemy\*, and it all depends upon which funny paper you read.

Robert E. Lee, "Radiocarbon: ages in error" *Anthropological Journal of Canada*, Vol. 19(3), 1981, pp. 9-29

<sup>\*</sup>Alchemy (21"k...-m¶): magical power or process of trans muting, (American Heritage Dictionary).

## Living mollusk shells were dated up to 2300 years old. Science vol. 141,

A freshly killed seal was carbon dated as having died 1300 years ago!

Antarctic Journal
vol. 6 Sept-Oct. 1971 p. 211

Shells from living snails were carbon dated as being 27,000 years old.

Science
Vol. 224, 1984 p. 58-61

Living Penguins have been dated as being 8000 years old!

"One part of the Vollosovitch mammoth carbon dated at 29,500 years old and another part at 44,000."

Troy L. Pewe, Quaternary Stratigraphic Nomenclature in Unglaciated Central Alaska, Geological Survey Professional Paper 862

(U.S. Gov. printing office, 1975) p. 30

"One part of Dima [a baby frozen mammoth] was 40,000, another part was 26,000 and the 'wood immediately around the carcass' was 9-10,000."

Troy L. Pewe, Quaternary Stratigraphic Nomenclature in Unglaciated Central Alaska, Geological Survey Professional Paper 862

(U.S. Gov. printing office, 1975) p. 30

"The lower leg of the Fairbanks Creek mammoth had a radiocarbon age of 15,380 RCY (radio carbon years), while its skin and flesh were 21,300 RCY." Harold E. Anthony, "Natures Deep Freeze," Natural History, Sept. 1949, p. 300 See also: In the Beginning Walt Brown p. 124

"The two Colorado Creek mammoths had radiocarbon ages of 22,850 +/- 670 and 16,150 +/- 230 years respectively."

Robert M. Thorson and R. Dale Guthrie, "Stratigraphy of the Colorado Creek Mammoth Locality, Alaska," Quaternary Research, Vol. 37, No. 2, March 1992, pp. 214-228, see also: In the Beginning Walt Brown p. 124

Russian scientists Kusnetsov and Ivanov carbon dated dinosaur bones at under 30,000 years.

Hugh Miller, Columbus, OH had dinosaur bone samples carbon dated at 20,000 years old.

The samples were not identified as dinosaur in advance.

Noah to Abram the Turbulent Years, by Erich von Fange p. 36

Material from layers where dinosaurs are found carbon dated at 34,000 years old.

R. Daly Earth's Most Challenging Mysteries, 1972, p. 280

# Ancient human skeletons, when dated by the new Accelerator Mass Spectrometer technique, give surprisingly recent dates.

In one study of eleven sets of ancient human bones, all were dated at about 5,000 radiocarbon years or less.

R. E. Taylor, "Major Revisions in the Pleistocene Age Assignments for North American human Skeletons by C-14 Accelerator Mass Spectrometry", American Antiquity, Vol. 50, 1985, pp. 136-140.

In 1993 scientists found wood (trees) buried in basalt flows (69 feet deep)

Wood samples sent to two laboratories to be carbon-14 dated 44,000 years old.

Basalt sent to two laboratories to be potassium-argon dated 45 Million years old.

Professor Reiner Protsch von Zieten lied about the age of Neanderthal skulls and artifacts for 30 years. A university panel exposed his frauds and he resigned Feb. 2005. Protsch had dated the "Bischof-Speyer" skeleton at 21,300 years but testing at Oxford showed them to be 3,300 years old.

www.worldnetdaily.com Feb. 19, 2005