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C1021 – June 16, 2010 – Radiohalos In Granite

Alright, we're eight weeks into a class where we're building a Biblical Framework of Geology. We could do the same thing with Biology, Chemistry or Physics. It's just that Geology is the discipline where modern pagan science started departing from biblical science. It was later that departures in Biology, Chemistry and Physics came in to conform to the new time scale posited by Geology. So we touch on some biology, some chemistry and some physics but the heart and core of everything I present is geology: the study of the history of the earth and its life...as recorded in rocks..

In doing this it's critical to understand that building a framework of geology is a Christian endeavor. I take you to two passages. First, Job 12:7. It can be thought, because we're doing things so differently than other churches, that we're out to lunch. You will see from Scripture we are not out to lunch. What 99.9% of these other churches are doing is out to lunch. They do some fine things, we're not critical of everything, but a lot of it is out to lunch. A lot of what is going on from pulpits is nothing more than a caricature of Christianity. What we're trying to do is let the picture be drawn from Scripture as to what Christianity is. Here's what Job says about studies of nature and geology as a part of nature and so what does the Scripture teach us about nature. Verse 7, "But now ask the beasts, and let them teach you; And the birds of the heavens, and let them tell you." Now, if you really think about what Job just said it sounds kind of strange. What do you mean ask the beasts? What am I supposed to do, stand in front of the monkey exhibit and start asking the monkey questions? I might get kicked out of the zoo and put in a cage myself if I do that? So what is Job after? He's telling us that the birds and the beasts have something to teach us,

that they communicate, that they deliver lessons without having to stand up in front of us at a pulpit and lecture. This is one of the functions of the animals and the birds, to teach humans. Somehow, marvelously, astonishingly, they are an avenue of communication from God to man. Now verse 8, "Or speak to the earth, and let it teach you;" that means ask questions of the earth, investigate it, study it and learn from it; it has lessons to teach. It's those lesson plans we're going through in this class. Rest of the verse, "And let the fish of the sea declare to you." So the fish also teach. God has a lesson to teach us through fish. What's the lesson? What are we supposed to learn from the animals, the birds, the fish and the earth? Verse 9, "Who among all these does not know That the hand of the LORD has done this, ¹⁰In whose hand is the life of every living thing, And the breath of all mankind?" Answer, everybody knows. It's a rhetorical question. The problem isn't that people don't know. The problem isn't that people need more information. The problem isn't that the earth and the birds are poor teachers. The problem isn't in the transmission of the lesson. The transmission gets through on a clear channel to every person. The problem is something else. Something else is going on with how the receiver is handling the information. Something is being done with the teaching material by the receiver, something sinister. Verse 11, "Does not the ear test words, As the palate tastes its food?" See, we all hear what nature has to teach us but the question is, when someone comes along and says this rock is 3 billion years old or the history of human development is evolutionary, are we keen enough to detect the truth from the lies? Do we have an ear that is attuned to test the words of the world? Are we sharp enough on what these things really teach to be able to discern that what the world says is a lie? See, if we're not up on these things and we're not capable then we don't have wisdom. Verse 12, "Wisdom is with aged men, *With* long life is understanding." These lessons about the beasts, the birds, the earth, etc...are a part of the wisdom literature of the Scriptures. So when we start to branch out in our thinking to grapple with what lessons the beasts, the birds, the fish and the earth have to teach us, it's then we're moving into wisdom, *chokmah*, how to think and live skillfully, not Greek wisdom, biblical wisdom.

So let's turn to the wisdom era. 1 Kings 4:29. Who is the king who is known for his wisdom in the OT? The one who Jesus said is the wisest person pre-Himself? Solomon. When Solomon was a young king he asked for wisdom and God gave it to him. Look at verse 29; this is finest depiction of wisdom in the OT Scriptures. "Now God gave Solomon wisdom and very great discernment and breadth of mind, like the sand that is on the seashore." Notice that, "breadth of mind," that means he could think across every area of life, he could think across multiple disciplines and he recognized an underlying wisdom that connected all of reality. Reality wasn't in compartments; all of creation was interconnected in one great tapestry of revelation. Verse 30, "Solomon's wisdom surpassed the wisdom of all the sons of the east and all the wisdom of Egypt. ³¹For he was wiser than all men, than Ethan the Ezrahite, Heman, Calcol and Darda, the sons of Mahol;" Look at that! Those were top guys in the ancient world; they were the Plato's and Aristotle's of their day. Solomon surpassed all of them, "and his fame was *known* in all the surrounding nations." Verse 32, "He also spoke 3,000 proverbs," those are pithy sayings, short precise summaries of truth, "and his songs were 1,005." He was a lyrical genius. Verse 33, "He spoke of trees, from the cedar that is in Lebanon even to the hyssop that grows on the wall;" so there's botany, think of the breadth of mind this man had. Solomon investigated all these things and he could tell you fascinating things about them. "he spoke also of animals and birds and creeping things and fish." Look at that how he just slides from one area of creation to another, from zoology to aves to entomology to ichthyology. His thoughts just catapulted through every area of life, he was a multi-disciplinary genius. That's wisdom; skill in thinking and skill in living. Verse 34, "Men came from all peoples to hear the wisdom of Solomon, from all the kings of the earth who had heard of his wisdom." People from all over the world flocked to Solomon. Why? Because he shed light on these vast marvels of the Creator God. That's why we're looking at the earth, that's why we're listening to what the earth has to teach us. This is what Solomon did. This is what great Christians do. And so we're doing it.

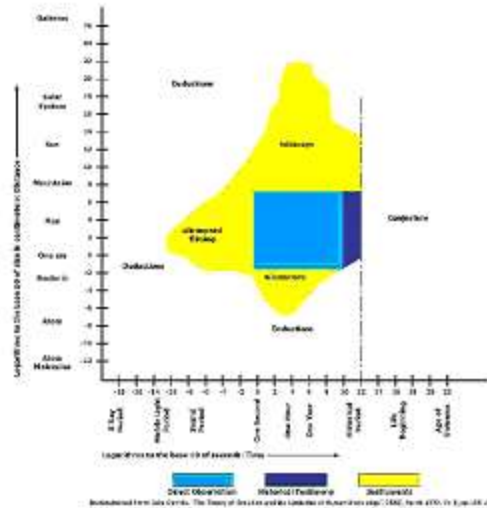
There are many other passages we could turn to. We could turn to 1 Pet 3:15, "but sanctify Christ as Lord in your hearts, always *being* ready to make a defense to everyone who asks you to give an account

for the hope that is in you, yet with gentleness and reverence;" That applies here. Are you ready to give a defense for the age of God's earth? People are asking the question. Col 2:8, "See to it that no one takes you captive through philosophy and empty deception, according to the tradition of men, according to the elementary principles of the world, rather than according to Christ." Are you being taken captive to humanistic philosophy, empty deception, traditions of men? Another one, let's turn to this one, 2 Cor 10:3 and, we'll use this as a primer to get into what we finished last time. Last time was two weeks ago so we want to come back to a diagram we introduced. 2 Cor 10:3-5, "For though we walk in the flesh, we do not war according to the flesh," but Christian, let me tell you something, we do war, we are in a cosmic war and we are called to put on the armor of God and go to combat. Verse 4, our weapons, "for the weapons of our warfare are not of the flesh, but divinely powerful for the destruction of fortresses. ⁵*We are* destroying speculations" I want you to look at the enemy. Get a good look at him, "speculations." What are speculations? They're ideas, empty ideas, imaginations of men's hearts but ideas nonetheless. And we are told here to destroy them, which means obliterate, that means rip to shreds false arguments. "We are destroying speculations," and what? "every lofty thing raised up against the knowledge of God," that's modern pagan science; it's a lofty, speculative way of knowing raised up against the knowledge of God. We're told every day that science has done away with the need for a God, science can explain all things. So what's our response? You have no science apart from God. Science presupposes the Christian God who created the world and all things in it. And as we destroy the speculations, that's the negative side, what's the positive side? "take every thought captive to the obedience of Christ." Every thought, biological thoughts, mathematical thoughts, archaeological thoughts, linguistic thoughts, cultural thoughts, legal thoughts, chemistry thoughts, geology thoughts. Now you can say, well, I don't want to mess with all that, I just believe, oh really? You just take it on faith. Empty, thoughtless faith. Is that obeying Paul's command, "take every thought captive?" No, that's rebelling against the command. That's saying I don't want to think. My faith is a thoughtless faith. Well, that's irrational, that's neo-orthodoxy, that's a retreat into fideism and that's largely the response that Christianity has had to secularism in the last 70 years, I just believe. But "I just believe" is not

biblical faith. Biblical faith is a thinking faith. Here's a quote, (you have to be careful with faith, people get off in the tulleys with this word) "Faith is not the thoughtless acceptance of something that we like to think of as true... It does not set aside the intellect but it subjects the intellect to God. It is only thus that the intellect is truly free; only thus is there an atmosphere in which it can operate. Thus...faith becomes the source of all true science."ⁱ We can never get to science until we believe God has ordered the world and there's something to discover. We have to first recognize God's absolute priority and originality. That He is the pre-condition for any thinking, any faith and any science without Him as an absolute precondition we can't think about anything, we can't even think about thinking or non-thinking. We can't do anything. Why? Because there wouldn't be anything.

So now let's think, let's do biblical strengthening of our souls, of our mentalities, of our theological thoughts. I heard someone say last week a very insightful thing. As they're sitting here and we're teaching their mind is going, going, going, flooding with thoughts. You know what that is? That's God the Holy Spirit doing some serious surgery on your mind, that's what's going on. That's like brain surgery every hour you come in here. He's teaching you, very rapidly and some of you think I'm not getting a lot out of this. But then what's happening? You really are because when a situation arises in life and you're talking to someone and the discussion starts to fringe on this stuff what happens in your mind? Your mind gravitates to the things you've learned and it starts flooding forth in your mind, you start recalling it and that's because God the Holy Spirit has been teaching you. So it's excellent to sit here and your mind is going 90 to nothing because God the Holy Spirit is like a computer technician who works on circuit boards and he makes all the right connections, he's hooking together the circuits so it works efficiently and correctly. That's what Rom 12:2 is all about, the circuit board of your mind being transformed, being organized correctly except it's God the Holy Spirit who's doing that as the word is taught and you're receiving it. He's busy making the right connections, He's working. That's what's going on in these classes. So be grateful, be joyful that He's really at work in your mind, building it strengthening it, transforming it.

Now tonight, we said last time we have this chart, remember, there are two kinds of science: hard science and soft science.



Hard science is laboratory science and it deals with things that are observable, testable and repeatable. You can do this in any laboratory in the world that's equipped with the proper machinery. It deals with things inside the blue box or things that extend in one of three directions in the yellow shaded portions. Those are just extensions of our present experience by instrumentation. We can go up, further into the reaches of space with things like the telescope, we can go down and see much smaller things with instruments like the microscope, we can go to the left to see smaller increments of time by freeze-framing things with photography, but we can't go to the right. We can't go into past time. To go into past time we would need a time machine, an instrument that could take us back and man has thought of this instrument but he can't build this instrument. That means he's limited when it comes to the right side of this diagram. What can I really know on this side? Off to the right? The only way I can extend my knowledge that way, if I reject the word of God, is to speculate, to look at present processes I observe in the blue box and say those are the same for all past time. That way I can build a history, which is what modern man wants to do, has to do in order to say anything about the past. But does he know that? Does he know that in the same sense as he knows something in the blue box? See, there's a qualitative difference in that knowledge and it's that difference that is glossed over in the media, in the textbooks, in the magazines; that's where the deception is occurring. The deception is that we are just as certain about things

outside the blue box as we are the things inside the blue box. The unobserved is put on the same level of knowledge as the observed.

Let me give you a practical illustration of this. When I was in the university and went to get my recommendation letter for medical school the prof asked me, "How did the human species originate?" And after the room temperature shot up to about 120 degrees in that office I answered, "I believe God created man." Now listen, this is what goes on. He said, "I can't give you a recommendation letter." So I said, "Why?" And he said, "Because you will commit malpractice if you don't recognize that evolution is true. For example: anti-biotic resistant bacteria. When we discovered Penicillin and began to give it to patients in the 1940's there was a subset of population that had anti-biotic resistance genes, and now, today, hardly any bacteria are susceptible to Penicillin. And if you go into medicine and you just treat every Tom, Dick and Harry with anti-biotics, not recognizing evolution, then you're going to be a very poor practitioner of medicine." Now, what's that answer all about? Micro-evolution, that's small changes. Has that been observed? Yes. Have bacteria ever been observed changing into non-bacteria? No. Bacteria are still bacteria; they didn't evolve into something else. So his defense was from microevolution. But what was the question about? Listen very carefully; I'm training you to pick up on the deceit. Here's his question, "How did the human species originate?" Is that a question that can be answered in the blue box? No, that's outside the blue box, that's far to the right side, the distant past. But when he goes to defend something in the distant past he appeals to evidence in the present, within the blue box. So the question he's asking is a question about the past, the evidence he's using to prove what happened in the past is in the present. Can you do that and have the same level of certainty of knowledge? No, that's fudging. He's making inferences of gargantuan proportions. He's looking at present evidence, we'd say hard science, we observe this in the laboratory, we can test it we can repeat it, but then he asks me what kind of a question? A past question. The origin of human beings. Is that observable, testable, repeatable? No, that's soft science. But then he applies what we do observe, micro-evolution, to the past and implies that if we have enough micro-evolution going on then we can get these large scale changes. That has some insurmountable information

problems. DNA is information encoded in the biochemistry. The problem is, "How are you increasing the amount of information?" Mutations don't cause an increase in the amount of information, the one's that do, called additions, are so minor and almost always deleterious, that's not going to account for it, no matter how much time you have. That's another problem for another class, a biblical framework of Biology and the Genesis kinds but the point is that they gloss over these distinctions. That's where the battle is being waged. We have to be sharp, we have to say, uh-uh, you asked me a historical question, you can't use present evidence without assuming constants, right? Right. Do you mean to tell me these constants never change? Yes, that's what I mean. How do you know that? All you've done is taken God's attribute of immutability and transferred it over to the creation. If they're honest they have to admit they don't really know that. But this difference is glossed over; they treat these two kinds of knowledge as on par with one another. They're not, it's a deception, and the public is buying into this deception, the evangelical church is buying into this deception, and they're turning it and using it against the Bible. And this is serious stuff because this happens daily on the university campus. I just talked to Bruce Wood today at the Institute for Creation Research and he says thousands of young Christian's career paths are being interfered with. Its violence to the intellectual integrity of these Christian students, students who have been sent off by Christian parents who are spending their hard earned money and this is the kind of treatment they receive in return.

So we've got to train our ears to decipher between hard science and soft science. They are not the same thing. But uniformitarian science, to say anything about the past has to assume they are the same thing. But the only way they can do it is take God's attribute of immutability, drag it down into creation and call it natural law. It's theft plain and simple. They're ripping off God's immutability. Why do they want to do that? To re-write history. Why do they want to re-write history? Because history is God's arena, it's where He works and the works of God are such a threat to the sinful agenda of man that to suppress Him we re-write history to exclude Him. But to do that I've got to steal constancy from Him. So they erect these constants inside of creation. Where do we learn in the Scriptures that it's dangerous to do that? What is the key

passage that says, don't assume that the past is the same as the present? 2 Pet 3:4. What did Peter say? It's the theme song of paganism, "Where is the promise of His coming? For ever since the fathers fell asleep, all continues just as it was from the beginning of creation." Peter is warning, a stiff warning, against buying into this theme song of paganism. He says in verse 5, "For when they maintain this, it escapes their notice..." what's that? their notice? Their observation? It's outside their blue box. There's something outside of their realm of observation that they don't know about. "it escapes their notice that by the word of God the heavens existed long ago and the earth was formed out of water and by water," that's the Creation of the heavens and the earth. So they erase the Creation event on a presuppositional level. Then the second great event they erase is verse 6, "through which, the world at that time was destroyed, being flooded with water." The Global Flood of Noah. So the Creation, the Flood are wiped out, both of those are great, mighty, revelations of God. Then a third event, this one yet future is also wiped out by their presuppositions. It's mentioned in verses 4 and 7, what is it? The second coming of Jesus Christ. When he comes back there's going to be a major disruption to world history, a major re-organization of the heavens and earth that is totally unpredictable by any computer, any scientific model, any parameters currently in use by pagan science. He's so hated that they will re-write everything if they have to to hide themselves from Him with whom they have to do.

So we're reversing that and taking every thought captive by paying very close attention to what Peter and other authors of Scripture say is the right way to think and applying it to geology. Geology looks at rocks, strata, fossils in the strata, radioisotopes and how all these are to be interpreted into a grand history of the earth and life. We've said there are two grand histories of the earth and life since 1800 and they stand in radical contrast to one another: one is the uniformitarian model of great ages, billions and billions of years of gradual processes that can account for the data we see in the earth, and the other is the catastrophic model of short ages, thousands of years of relatively tranquil periods of time interrupted by high energy events that can account for the data we see in the earth. These two are in radical conflict. You cannot get together these two stories; one says the earth is

4.6 billion years old; the other says its 6,000 years old. One has one sequence of events; the other has a different sequence of events.

Maybe you don't understand all the details of the science I'm showing you, that's fine, you can work on that; you can keep chugging away on that. But at least in this class if you get the structure of unbelief and you see what is going on in the privacy of the human soul, how we think and how we can get de-railed by Satan from the proper way of thinking and then doubt comes in and we start sliding down this slippery slope of unbelief and before we know it we can't trust here and we can't trust there and it's this erosion that takes place in our souls. It's gradual, it's like a current that causes you to drift and without a reference point you can't tell how far you've drifted. This erosion in our souls is just like those underlying currents and they can take you far, far away from biblical truth and we find ourselves in trouble; we find ourselves unable to believe and we wonder what is going on here, why can't I trust the Lord and the answer is because we've gotten so off track and we've built up this gunk in our souls and until that gets cleaned out we can't believe. So we want to at least understand this and by going through these examples we're cleaning out the gunk, we're destroying the speculations and we're taking every thought captive to Christ. That's the strategy.

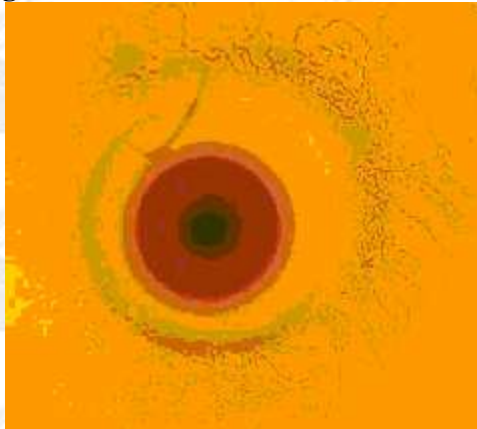
Last time I showed you the work of Dr Humphrey's; he's working with Radioisotopes and the Age of The Earth. Radioisotopes are the icon of evolution. They're THE holy grail of the old earthers. So that's why we're tackling it. The key to Dr Humphrey's work is that in the Ur-Pb decay chain one of the by-products is He. And He is a slippery gas, it leaks out of the rock very quickly. So when we look at the amount of Ur decay (at present rates) that has occurred, we find something on the order of 1.5 billion years. But if that's the case, if 1.5 billion years of decay took place in an actual 1.5 billion years, then why are we still finding He in the rock? This is hot Precambrian rock. The He should not be there, not in the amounts we're finding, it gets out too fast, yet it's concentrated around these radioactive zircons in the granitic rock. So this is a serious problem for evolution. The amount of He should be nowhere near where it is, on the order of 100-000-250,000 times less He should be there if the uniformitarian model is true and what did we say

is the first assumption of uniformitarianism applied to radioisotope dating? What's the first assumption? We said there were three assumptions and I gave you the acronym, CIA. C stands for Constant rate of Decay. What did Peter say? No constant rate of decay? That's false...We're just applying 2 Peter 3:4 to radioisotope dating, that's all we're doing. Peter would be saying the same thing I'm saying if he were standing here today. He'd say, no, radioisotope decay rates are not constant. That's what I'm saying and that's what Dr Humphrey's is saying and that's what Peter is saying. The marvelous thing about Dr Humphrey's work is that when we start with the Scriptural teaching that the earth is ~6,000 years old then we go to the lab and calculate the rate of He diffusion out of these rocks at various temperatures, then the present amounts of He we find in those rocks is exactly what we would expect if the earth is ~6,000 years old. So what we conclude is the key conclusion of the RATE project; that accelerated nuclear decay has occurred sometime in the past. Accelerated decay, that's the buzzword. What that means is that a lot of nuclear decay occurred over a short period of time and that means that the first assumption of radioisotope dating is wrong, there is no Constant Rate of Decay, there are factors that can alter decay rates. The two key events that these creation scientists are suggesting changed these decay rates come right out of Genesis. As we read the account of Genesis, and we read it historically, we realize two events could have produced conditions that could alter decay rates, namely, the Creation and the Flood; these are high-energy events. So a big question is can we go into the laboratory and change decay rates? If so, what changes are necessary to do that? We'll be discussing some theoretical explanations for certain changes that can create orders of magnitude acceleration in decay. That gives us an idea of how God may have worked during the Creation and Flood, what conditions might have been present on the earth at those times.

2. Radiohalos in Granites

Tonight I want to show you the work of two men, Dr Robert Gentry and Dr Andrew Snelling. Their work also shows acceleration in decay rates. Gentry is a fascinating story because he was working on these things called radiohalos back in graduate school around the 1980's and the National Science Foundation was funding his work; it was peer

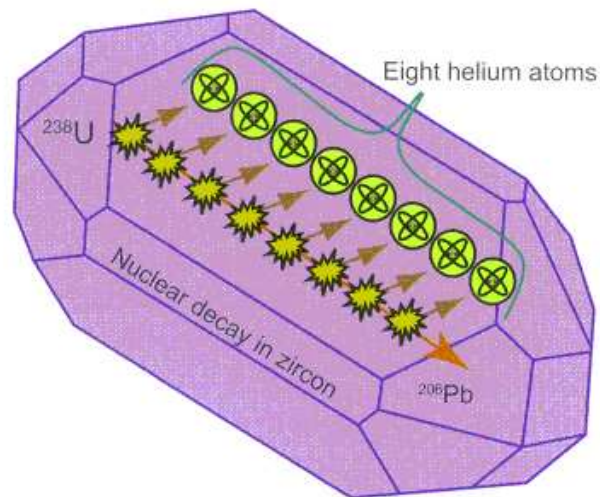
reviewed and published all before they realized what this guy was really saying.



Polonium 218

Then they realized it and his funding just mysteriously dried up. So this is the guy that originally found something strange in the rocks that gives the evolutionary time scale a bit of a problem. The other guy is Dr Andrew Snelling, he's an Australian conversant in a number of areas but his specialty is geology. I mentioned before the book by Henry Morris and John Whitcomb that started a firestorm of controversy, *The Genesis Flood*, published in 1961. Well, Morris asked Snelling in 1991 to update the work and interact with modern geology. Morris obviously thought a lot about this guy. He finally published it late last year, it's taken him 10-12 years to write the book, actually two books, *Earth's Catastrophic Past: Geology, Creation & the Flood*, so if you're looking for a 1,000 page book to read I suggest Snelling's work, brilliantly done, well-written, some of it harder, some of it easier. He's come along behind Gentry and worked with this discovery on the RATE project.

Let's go back to what we said last time, granite rocks. Everyone is familiar with granitic rocks. Many of you have kitchen countertops made of granite. There are little black flecks in a lot of granitic rock. Those flecks are called biotite and inside the biotite are tiny zircon crystals. And inside those zircon crystals you often find the radioactive isotope ^{238}U .



Nuclear decay makes He within zircons.

Now because it's radioactive it's unstable and it decays until it becomes stable. It is stable at Pb206. Now there are eight intermediate stages as it decays down to Pb206. It's got to go all the way from Ur238 down to Pb206 and it takes eight steps to get there. The time it takes for half of the Ur238 to decay into Pb206 is 4.5 billion years, at present rates. That's a long, long half-life. But three of the intermediates in this decay chain are Polonium which has extremely short half-lives. Po218, Po214 and Po210. The half-lives on these guys; Po218 is 3.1 minutes, Po214 is 164 microseconds and Po210 is 138 days. All of those are extremely short compared to Ur238. So let's say you're going from Po218 to Po210. Po214 decays after 3.1 minutes to Po214, it's only Po214 for how long? 164 microseconds. Then it decays to Po210. To capture these guys, evidence of these guys requires perfect conditions. I say that because the temperature has to be below 302 degrees Fahrenheit. If the earth is hotter than that the decay goes on but it doesn't leave any evidence in the magma, it's liquid; it can't leave any evidence.

Now, at each step in the decay chain a particle is emitted at a certain energy level.

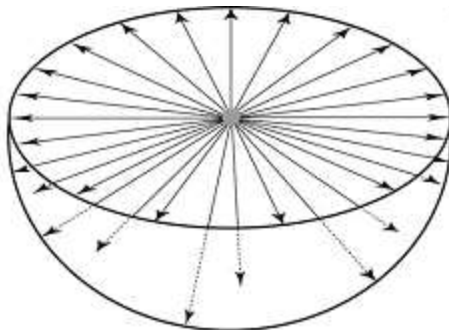
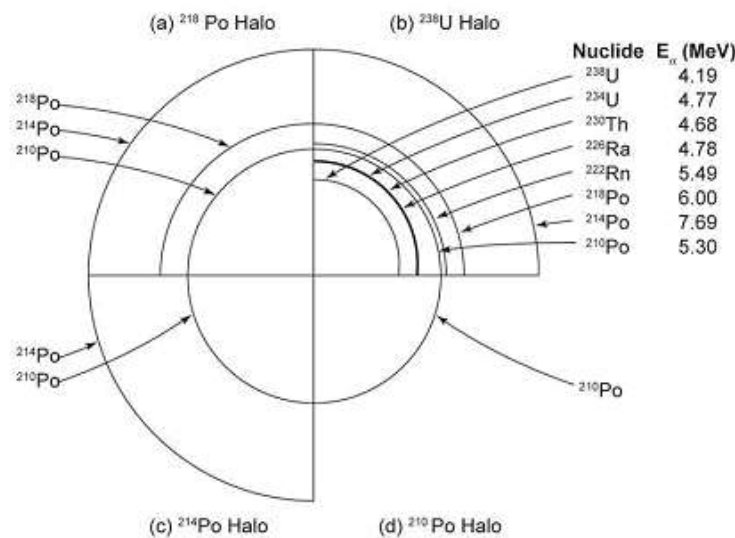


Figure: The radioactivity of the uranium inside the zircon crystal shoots out in all directions into the surrounding biotite flake, damaging it and producing a spherically colored shell or halo.

They call these little projectiles, alpha particles, and they shoot out into the biotite and cause damage. The damage is these rings you can see. They are captured in the rock if the temperature is below 302 degrees Fahrenheit. Above that you don't capture any rings. The rock is liquid, can't capture any evidence. But below that the rock has crystallized enough to capture the damage from these little alpha particles. They are like bullets from a gun and a bullet can only fly so far and then it hits the ground. Think, if the bullet left a damage trail every time you shot it and you just stood in one spot and fired millions and millions of rounds and they would all travel the same distance. If you did that you'd leave a ring at, say 2 miles, whatever, 2 miles from where you're standing there would be a ring of damage from those bullets hitting the ground. Well, alpha particles do the same thing. They fire out as decay happens and they leave damage rings. They leave them at different distances depending on the amount of energy released. Some bullets fly further than others, it's the same idea.

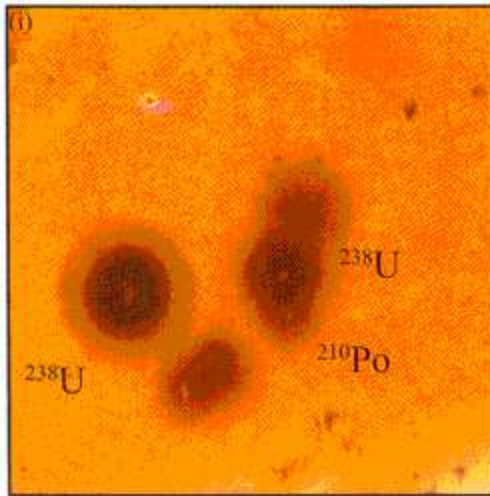


a. Dark Ur rings in the granite shows a minimum of 100 million years of decay (at present rates)

To get a dark Ur rings in the granite shows a minimum of 100 million years of decay (at present rates). That's interesting because we find these in the rocks of the earth. So most people would conclude what from that? That the earth is very, very old, I see dark rings, that means we've got millions of years worth of Ur decay at a constant rate of decay, the earth is old. That's the key word - you're antennas want to go up anytime anyone says the word 'constant.' What's the only constant? Only God is constant. I personally don't believe there are any such things as constants in creation. I believe, on the basis of Scripture, that all such things people call constants, have at some time or another been inconstant. So these aren't constants, their variables. They may be constant in the blue box over the period of their observation, as far as we know in the blue box, but not for all time. But they see the dark rings and because they've located the constant down in creation they assign the earth an old age.

b. Dark Po rings in the nearby granite shows a lot of Po decay

But there's something else in the rocks that shouldn't be there if the earth is old. Dark Po rings. What did we say about Po half life? It's extremely short, the longest one is Po 210, its 138 days, so it doesn't last long. And if I find dark Po rings right next to dark Ur rings, then what can I conclude? I've got millions of years of Ur decay here and I've got lots of Po decay right next door. The Po must have come from the Ur, Ur decays slowly, it last's a long, long time, but Po doesn't last a long, long time, it's extremely short, like a vapor, so to capture it I've got to cool the earth extremely rapidly. Now evolution says, no, if you've watched PBS you've seen the early earth, it was a lifeless place and there were these oceans, hot oceans, and the earth was being bombarded by meteors and comets and this kept the earth hot and as the bombardment slowed down the earth gradually cooled. We're talking millions and millions of years to cool. That's the evolutionary model and what that means is you don't capture Po radiohalos next to Ur radiohalos, you just can't capture them because it's too hot and by the time the Po decays it's already gone, no evidence. But we look in the rock and we see the evidence. Here's a picture on a micro-level of them side by side.



c. To capture both Ur and Po rings would require rapid cooling of the earth

What this means is that the earth had to cool extremely rapidly, in a matter of just 6-10 days, that's the calculated period. Since this is what we find, the only conclusion is that the Ur and Po rings formed simultaneously, within 6-10 days. If that's the case then the Ur decay rate is not constant. Instead, 100 million years of decay occurred in 6-10 days. That formed enough Po to get dark Po rings and capture it in the rock. So that's the main point we want to get across. Decay rates were accelerated in the past. And that means there are events in the past that have occurred and there is evidence in the earth that the evolutionary model of earth's history cannot account for. That Po should not be there.

d. Dark Ur and Po rings are found on a global scale in every strata

Here's another thing, we find these all over the world in every strata of rock. We find it in Precambrian granites, those are what we'd call Creation rock and we'll be looking at the Geologic Column in a few weeks.

Geologic Timescale with Dominant Fossils					
	ERA	PERIOD	EPOCH	SUCCESION OF LIFE	INDEX FOSSILS
Post-Flood Sediments	CENOZOIC Recent Life	QUATERNARY 0-2 Million Years Rise of Man	Recent Pleistocene		PECTEN AMPTUNEA
		TERTIARY 64 Million Years Rise of Mammals	Pliocene Miocene Oligocene Eocene Paleocene		CALYPTROPHORUS VENERICARDIA
Flood Sediments	MESOZOIC Middle Life	CRETACEOUS 80 Million Years Modern Seed-Bearing Plants, Dinosaurs			SCAPHITES INOCERAMUS
		JURASSIC 56 Million Years First Birds			NERINA PERISPHINCTES
		TRIASSIC 40 Million Years Cynoids, First Dinosaurs			TROPHITES MONOTIS
		PALEOZOIC Ancient Life			PERMIAN 48 Million Years First Reptiles
PENNSYLVANIAN 19 Million Years First Insects	DICTYOCLOSTUS				
MISSISSIPPIAN 41 Million Years Many Crinoids	PROLECANITES				
DEVONIAN 57 Million Years First Seed Plants Cartilage Fish	CALYPTROPHORUS PALMATOLEPUS				
SILURIAN 38 Million Years Earliest Land Animals	MICROSPHIER HEXAMOCERAS				
ORDOVICIAN 44 Million Years Early Bony Fish	CRYSTIPHYLLUM TETRAGRAPTUS				
CAMBRIAN 54 Million Years Invertebrate Animals, Brachiopods, Trilobites	BATHYURUS (Trilobite) PARADOXIDES (Trilobite) BILLINGSHELLA				
Pre-Flood and Creation Sediments	PRECAMBRIAN TIME	EDICARAN 88 Million Years Very few fossils present (bacteria, algae, protozoa)			

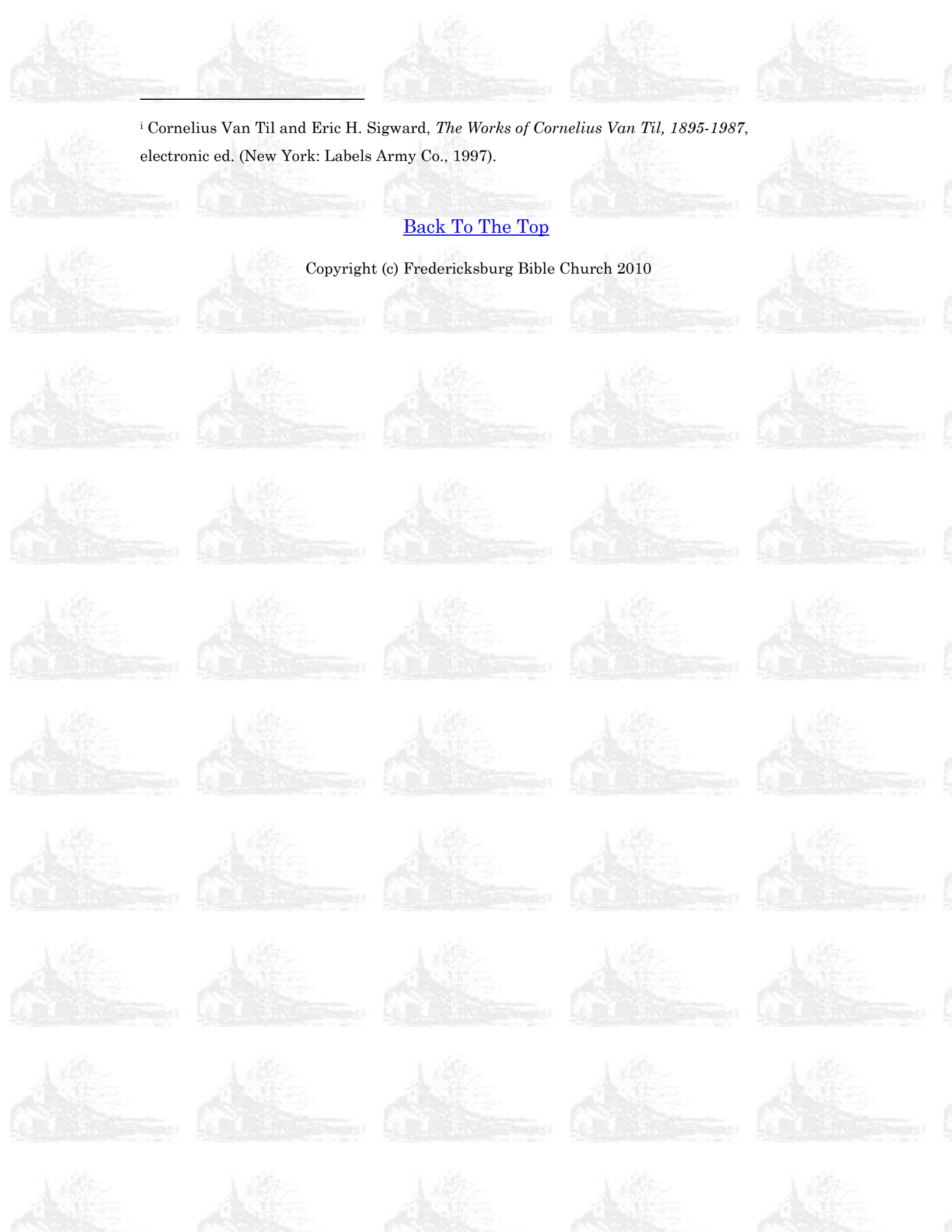
This is practical for any vacation you go on because you're going to see rocks, even if you just drive down the highway, and if you live in an area that has lots of granite, like the Hill Country, you can walk up to a rock and see the black flecks and even peel them off. They're in layers and inside those layers are these tiny zircon crystals and the fingerprints of God's recent work. So we find these in Precambrian Granites, deep down, Creation rock, we find them in Cambrian Granites, that's Flood rock, formed during the Flood and in Postcambrian Granites, those would be rocks formed probably in the aftermath of the Flood during the mountain-building activity described in Ps 104:6-8.

The question for Christians is this? When did this happen? Well, we go back to the Bible and we read the Bible again and we ask, "What events could create conditions favorable to heating the earth up and cooling it rapidly so as to capture Ur and Po rings?" I find this in the earth, now Lord, show me. I read the Bible; there are only two events of such magnitude, two high-energy events. Those events are the Creation and the Flood. Both events were global in scale and no other events in Scripture are global in scale. Therefore, Snelling concludes, "It appears

that the conditions necessary for the formation of Po radiohalos occurred only during global, high energetic events like Creation and the Genesis Flood. In both events rapid, high-temperature processes occurred, based on the biblical descriptions of massive cosmological and geological change. The descriptions of both events also suggest accelerated geological processes, and now the RATE group concludes there is evidence for accelerated nuclear decay processes as well. The production of Po radiohalos apparently is not occurring at the present time. In addition, the widespread abundance of Po radiohalos in granites all over the earth would require events of global magnitude.”

This is some great science being done. This has practical benefits with discovery of ore deposits, they’ve discovered an association. The evolutionists didn’t discover this association. Creation scientists discovered this association. And this is stuff that we could see on CNN coming out, big stuff, very practical. All the great discoveries don’t occur by evolutionists. And frankly, none of the practical stuff that science has discovered depended on an evolutionary framework. It was just lab science. So we can and should be sending our kids into science, there’s nothing to be afraid of. There are wonderful things to be discovered by Christians going into science presupposing the Scriptures. Here’s a great example: discovery of massive ore deposits, saves millions of dollars of wasted drilling.

So, we just point that out because people worship radioisotope dating and I think what we’re trying to say is you’re worshipping at the wrong altar. The only thing that’s constant is God, it’s his work in the earth, worship Him. And I can look at the granite in the earth as a testimony to the work of God in Creation and the Flood and I can marvel and be thankful. I can be like Solomon and develop true wisdom by thinking God’s thoughts after Him as it relates to the earth. Job says the earth is speaking to you and if you listen, if you look you’ll find clues all over of the global works God has done in history. Po Radiohalos is just one of those. Let’s see what Snelling says, give him two minutes to explain the benefit of this, what to do with this.



ⁱ Cornelius Van Til and Eric H. Sigward, *The Works of Cornelius Van Til, 1895-1987*, electronic ed. (New York: Labels Army Co., 1997).

[Back To The Top](#)

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