

THE INTERSECTION OF

Session 2

Faith & Science

Can you have faith without leaving science at the door? Can you believe in science without compromising your faith? Join instructor John Teravskis for an 8-week class on the intersection of faith and science.

In the beginning, God ...

1

The Intersection of Faith and Science ©

For since the creation of the world, God’s invisible qualities – his eternal power and divine nature – have been clearly seen, being understood from what has been made.

- Romans 1:20




GENESIS
FORUM ACADEMY
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January 2021

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The Evolution of Education

Resources (cont.)

- Genesis Apologetics (Folsom, CA): <https://genesisapologetics.com/>
- Genesis Discovery and Fossil Museum (Gendive / Hell Creek Formation, MT): <https://creationtruth.org/>
- Scale of the Universe (of everything, from the Universe, all the way to Planck Length): <https://www.youtube.com/watch?v=5L49ZU85M1s>
- Star Size Comparison (Oh, The Majesty of God!): <https://www.youtube.com/watch?v=GoW91DZ1GSA>
- Paulis, S.: <https://www.creationastronomy.com/>
- "Our Created Solar System" (video)
- "Our Created Stars and Galaxies" (video)
- "Our Created Universe" (video)
- Answers, Richard A., M.D.: *Answer: Did Heav's the Eye?* (exciting glimpses of God's Power and Design)
- Al Khalil, J.: *Amazing program produced by a professional photo/humanist, on such things as atoms, antimatter, the age of the universe, etc. Can be viewed on YouTube.*
- More Great is Our God (Laminar) / Louie Galois: <https://www.youtube.com/watch?v=0Cm4b7aEad>

3

Philippians 4:5-7

In all things give Thanksgiving . . .
and the peace of God . . .
which passeth all UNDERSTANDING . . .



‘Understanding’
All Knowledge

4

Romans 1

(paraphrased)

(v20) Since the Creation, men have seen the earth and sky and all God made, and have known of his existence and great eternal power. So they have no excuse for saying there is no God.

(21) Yes, they know about him all right, but they won't admit it or worship him, or even thank Him for all His daily care. And after a while they begin to think up silly ideas of what God is like and what He wants them to do. The result is that their foolish minds became dark and confused.

(v22) Claiming themselves to be wise without God, they become utter fools instead.

(23) And then, instead of worshiping the glorious, ever-living God, they take wood and stone and made idols for themselves, carving them to look like mere birds and animals and snakes and puny men [worship *Nature*].

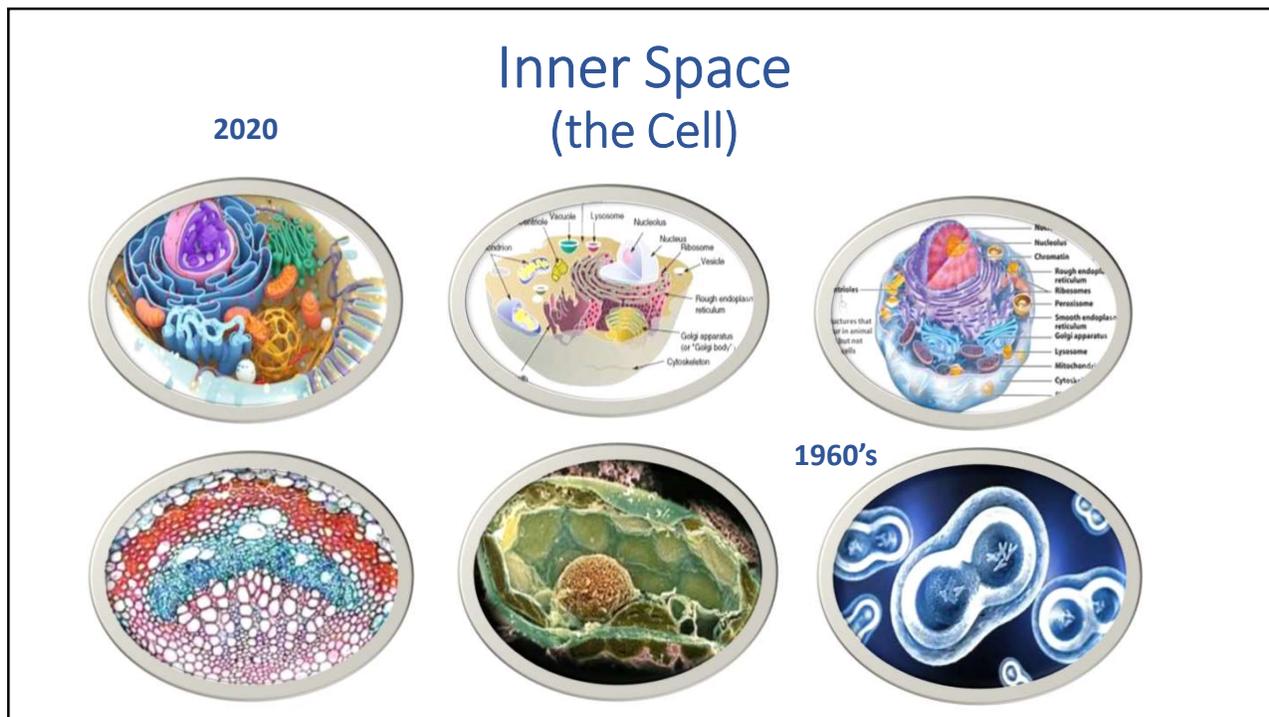
(24) So God lets them go ahead. . . .

5

Outer Space (Universe of Galaxies)



6



7

Genesis 1:1

In the beginning. . .
the BEGINNING. . .

Here we have a magnificent, beautiful, *intelligent*, and dramatic account . . .

A *literal* rendering – of an
historical narrative – scribed in a
poetic style – for our
reflective *edification**

* Edification: (Purpose) *The instruction or improvement of a person morally and intellectually*

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There is another account which is *seemingly* magnificent, beautiful, and dramatic that holds to a ***naturalistic principle*** (i.e. *Nature-centric*), and that tells a *mythological narrative* describing a beginning that appeared . . .

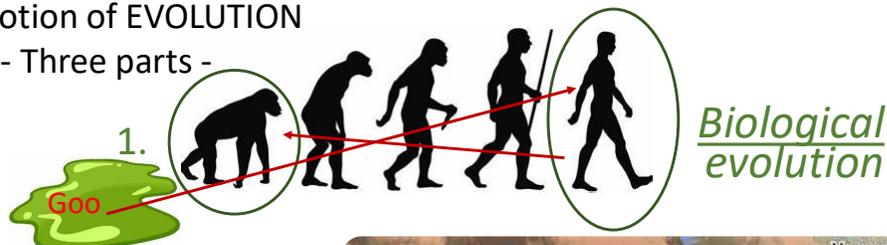
Out of *Nothing* / From *Nowhere* –
 That happened by *Chance* –
 Without *Design* –
 Or *Purpose* – and that
A BIG BANG!



9

The Notion of EVOLUTION

- Three parts -



2.



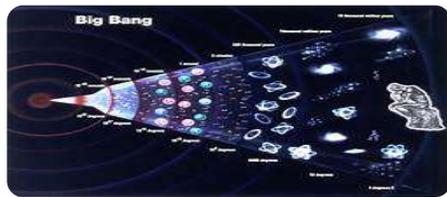
Geological



1.7 miles long (2,736 meters)

1 meter = 1 million years (~2 billion years)

3.



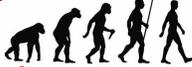
Cosmological c.2020 = 13.73 billion years

Big Bang Time... Time... Time...

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The *historical* Worldview
A fictional PAST

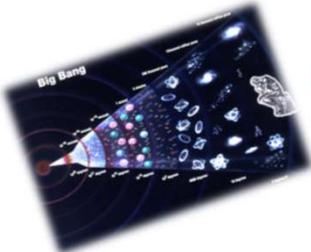


LIFE (biological) ~3 bya 
 Human evolution **MILLIONS** of years ago

EARTH (geological) ~4.5 bya
 Grand Canyon evolving over **M/BILLIONS** of years



UNIVERSE (cosmological) ~14 bya
 Big Bang evolving over **BILLIONS** of years



*A few teeth, some pieces of bone, a skull or two –
 what a fragmentary line: Man has little behind
 him but the imagination of the anthropologists
 and the ingenuity of the artists.*

- H.W. Clark, "A Chain of Dry Bones"

The *Truth* about the PAST (and TIME)
HisStory – The Bible: Genesis →

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**Is the Big Bang
 A Theory?**
No!
*hypothetical
 narrative*



Think *WORLDVIEWS* *

* Personal Philosophy
 Everyone has one
 Ultimately 2 choices

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A Devine Detonation? 'Let There Be LIGHT ...'

$$E = mc^2$$



Energy -(Motion)- Matter continuum

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An All-too-Common Scenario

"Do you believe in the Bible?" ✓

"Do you believe in Genesis?" ✓

"How about a creation of all things in 6 days?" ✓

"Do you believe in a fully-grown individual named Adam, created directly from the dust of the ground?" ✓

"Do you believe in a flood that covered the entire earth; and in an Ark that saved the lives of eight humans, and two of every air-breathing animal, including dinosaurs?" ✓

"Well, how about men living to be nearly 1,000 years old; and a timeline from the beginning of all things that tells us the earth is only around 6,000 years old?" ✓

"So, you believe all of these things from the Bible. Then, answer me this: **If the earth is only 6,000 years old as you believe, how come we see stars that are billions of light-years away?"**

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How can the earth and universe be only 6,000 years old when we know that there are galaxies that are at least 10 billion light-years away from us?

SILENCE 

The Horizon Problem

Distant Starlight Problem

My Journey

"Ha Ha, you Christians have a distant starlight problem!"

1960's
1970's
1980's
1990's
2000's
2010's
2020's



 John & Mark
Intersection of
FAITH & SCIENCE

Consider this: With a wrong understanding of Genesis 1-11 as the foundation of Scripture, the truths in the rest of the Bible begin to unravel, and **the believer's faith is weakened.**

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The question we really want to answer in this session is –

Does light from distant galaxies really take Billions of years to reach Earth? TODAY!

*It's not just a matter of how God created light at the Beginning in such a fashion that the light from distant stars that were fashioned on day 4 of Creation Week could be seen by Adam and Eve on day 6 (~48 hours), but rather, how are we able to see distant galaxies from Earth **today**, in REAL TIME?*

Critics of the Bible often cite distant starlight as a problem for a literal, historical reading of Genesis. It is important that we, as Believers, have a clear understanding, and offer a definitive answer to this perceived problem.



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The most fundamental question of Science!

The Intersection of Faith and Science The Importance of "Worldview"*

In the context of the Intersection of Faith and Science, the most comprehensive, all-encompassing *metaphysical* question that can be asked is . . .

Faith & Science  **Worldview** [How does an infinite, transcendent, intelligent Being Create, Sustain, and Enter a [finite, tangible universe]?]

Realm of 'Science'
Self-imposed limits* **Scientific Method**

'The day science begins to study non-physical phenomena [*the metaphysical*], it will make more progress in one decade than in all the previous centuries of its existence.'

- Nikola Tesla  **Bill Nye**

A SELF-EVIDENT TRUTH
July 4, 1776
July 4, 1863

* *Worldview: Personal philosophy*
Everyone has one
* **Essential – but WITHIN REASON!**

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Psalms 19:1
The heavens declare the glory of God. . . .

L I G H T



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LIGHT

There are *at least* four properties (or types, levels, *aspects*) of light:

1. **God is light (1 John 1:5)** — the very Essence of Light. It is fundamentally how *His Power* (*His Omnipotence*) manifests itself as He created, then entered – and enters – His Creation.
(For emphasis: How the transcendent, omniscient, omnipotent, omni-present, Being enters into our finite, tangible universe. – cf. N.R. Wood, *The Secret of the Universe*. . .)
(Or, how the transcendent enters the tangible)
2. **Injunctive light** ('Let there be light. . .' – **Genesis 1:3**) — God's command becomes the fundamental process of our *Energy*//-(Motion)-//*Matter* Continuum.
(And therefore our very existence!)
3. **Created light** (God creates the luminescent bodies – on Day 4: The sun, moon, and stars) — the empirical light of our common experience. (**Genesis 1:14**) (as wave and particle*)
*This dual *wave/particle* behavior remains an underlying *mystery* in science that is simply accepted in practice: Both cannot be tested at the same time. **The more [Created] light is studied, the more questions we have, rather than answers we can claim.** (*D. Faulkner*)
4. **Artificial light** (man's harnessing and use of energy) — the light of our convenience

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Age of the Universe

Although the most distant point in the universe from earth *may* be 10 billion light-years or more, *that does not mean the universe is 10 billion years old*. A light-year is a measurement of distance, not of time.*

At our finite and *relatively* simple level of existence, it is easy and convenient to interchange the concepts of **distance**, and of **time**.

i.e., 45 mile distance from Lodi to Sac International: 1 hour / 60 minutes / 3,600 seconds!

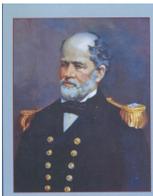
When it comes to *cosmic* and *quantum* levels of existence, it is not possible to deduce a perception of time from a measurement of distance. (cf. "*Lightyear Misapplied*", B. Schweigerdt, 2006)

When we measure the velocity of light, what is observed is *finite motion* at *relative rest*, sufficient to govern and observe actions at our restricted level of existence. However, at the cosmic and quantum levels, light in motion travels at near infinite velocity, and this is encoded in the E=mc² equation.

* See "A Little Secret about the Age of the Universe"

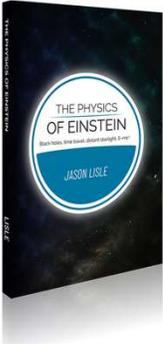
20

Last week Mark shared an interesting observation when he gave the example of Matthew Fontaine Maury, Naval Officer and Professor of Meteorology at the Virginia Military Academy.



Matthew Fontaine Maury, Father of Oceanography

“Throughout history, Scripture has provided assumptions or conclusions that inform hypothesis for much scientific inquiry and discovery.”



“Sometimes the most amazing discoveries in science stem from an anomaly.”* - J. Lisle

*Anomaly: Something that deviates from what is standard, normal, or expected.

The ASC model we’re going to explore here is based largely on these fundamental observations.

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The An-Isotropic Synchrony Convention

*Einstein’s Special Theory of relativity launched a new way of looking at the universe. But one question remained: **How long does it take light to reach the earth?** The answer depends on your assumptions. **‘Instantly!’ declares a new creationist theory.***

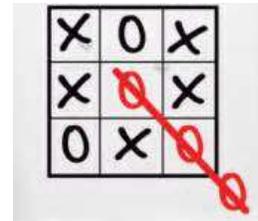
assumptions, instantly, declares a new creationist theory, does it take light to reach the earth? The answer depends on your looking at the universe. But one question remained: How long Einstein’s special theory of relativity launched a new way of

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Important Points

1. A light-year is not a measure of time, but rather a calculation of distance.
To think otherwise is to entertain a confounding tautology – **circular reasoning***
(And produces a great deal of deceptive confusion!)
2. Isotropic principles and techniques can't be used in gauging one-way starlight travel.
(Isotropic means "a velocity that has the same value when measured in different directions" i.e., back/forth motion, A-B / B-A)
* You can't actually travel to the star in order to measure the amount of time it took to get there (nor calculate the distance for that matter).
3. An-Isotropic rules *can be applied* in order to establish a **convention** on which to base a model of measurement.
4. An An-Isotropic Synchrony Convention provides the rules and the parameters –

CAUTION – They are extremely counterintuitive so be prepared to think outside the box!



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*The Cosmic Tautology

Using the light-year to measure time (rather than distance) represents the essence of the Cosmic Tautology – **Circular Reasoning**.

It's similar to what *evolutionary-minded geologists* use when they are trying to determine the age of something on earth – **Well, we know the age of this fossil here, by the age of the strata where we find it buried.**

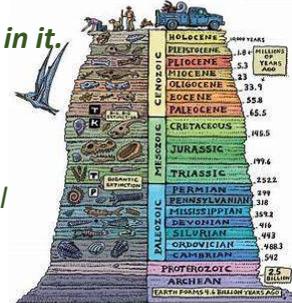
And we know the age of the strata by the fossils that are buried in it.

Index Fossils



From this method of reasoning the system of Index Fossils and 'Geological Time' was born – similar to the notion of cosmological time in light years!

Index Fossils ~ Light years!
(Quite the same, and used in like fashion)



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Anisotropic Synchrony Convention

RESOLUTION

“The distant starlight problem is resolved if we accept that Genesis is using the *anisotropic* synchrony convention (ASC) rather than the Einstein *isotropic* synchrony convention (ESC). The resolution is simple: under ASC, the one-way speed of light when directed toward earth is axiomatically infinite, even though the round-trip speed of light remains 186,000 mps. Thus, the light from stars that are created on the fourth day will naturally reach the earth instantaneously.” (Conclusion)

*An-isotropic Synchrony Convention—
A Solution to the Distant Starlight Problem*
Dr. Jason Lisle, (2010)

answersingenesis.org/astronomy/starlight/anisotropic-synchrony-convention-distant-starlight-problem/

Included on the F&S Class Resource Page
(From January 2015 Presentation: “Finite Thinking”)

Academic
Paper
- Online -

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“Anisotropic Synchrony Convention—A Solution to the Distant Starlight Problem,”

J.P. Lisle, *Answers Research Journal*, Vol. 3 (2010)*

Note that ASC has definite *observational advantages* over the [Isotropic] synchrony convention. Of all the infinite possible synchrony conventions, only ASC does not require knowledge of the distance to the source to record the time of any event. ***Events happen as they are seen.***

Any other synchrony convention requires (1) knowledge of the distance to the source, and (2) knowledge of the speed of light (or at least the stipulation of its one-way speed), in order to compute the light-travel-time from the object to the observer. The resulting number is then subtracted from the time the event was observed, to find the time when the event happened. ***But since the (inward directed) light-travel-time of ASC is axiomatically zero, there is no need to know the distance to the source, nor the round-trip speed of light.***

* answersingenesis.org/astronomy/starlight/anisotropic-synchrony-convention-distant-starlight-problem/

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‘It may seem a strange result to those unfamiliar with *Special* Relativity. However, it is already well established that clocks tick slower as they approach the speed of light, and would stop completely if they could actually attain that speed.

So, from *light’s point of view* (imagine that we could travel alongside the light – i.e., Einstein) every trip is instantaneous anyway. This happens regardless of which synchrony convention we use. So, it is not so surprising that we can find a synchrony convention where the travel time is also zero as measured by observers on earth.’

– J. Lisle, “The Biblical Basis for ASC,” p.202

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**Velocity of Light
enumerated
Working with
'Crazy'
Numbers!**

The Progress of Time

It takes a clock 17 minutes to advance 1,000 seconds

It takes a clock 3 hours to advance 10,000 seconds

It takes a clock 1 day to advance 100,000 seconds

It takes a clock 11 days to advance 1 million seconds

It takes a clock 32 years to advance 1 billion seconds

It takes a clock 32,000 years to advance 1 trillion seconds!

Place Key Legend

h = hundreds
th = thousands / 10^3
m = millions / 10^6
b = billions / 10^9
tr = trillions / 10^{12}
tr2 = quadrillion / 10^{15}
tr3 = quintillion / 10^{18}
tr4 = sextillion / 10^{21}
tr5 = septillion / 10^{24}
tr6 = octillion / 10^{27}
tr7 = nonillion / 10^{30}
tr8 = centillion / 10^{33}

The Dimension of Distance

Light travels at the rate of 186,000 miles per second;
— That is 670,000,000 miles per hour

In one year's time, light travels 6,000,000,000,000 miles

One Light-year is the distance it takes light to travel in one year, i.e., 6,000,000,000,000 (trillion) miles

The current assertions of astronomy place the farthest galaxy from the earth at ~ 14,000,000,000 light-years

This means that the galaxy most removed from us is 84,000,000,000,000,000,000,000,000 miles away!

That is **84 BILLION-TRILLION miles distant!!**

OR, 84 sextillion miles away!

Light-year / think *ly-d* (where *d* = distance)

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Is it possible to comprehend

84 sextillion miles away!

How large would a star/galaxy need to be for it to be seen at that distance?

How much energy would such a body need to produce
in order for its light to reach earth, **84²¹ miles** distant?

We need to move
beyond our
Earth-bound
way of thinking



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'Profound' Numbers, continued . . .

* There are 100 billion galaxies in the universe with 100 billion stars in each. That is **10²¹**, or *10 sextillion stars*.

* There are **10²⁸ atoms in the human body**, more than the stars in the universe.

* Your brain stores the equivalent of 25 million books. Since there are 70,000 words in the average book, that equals 1,750,000,000,000 (1 trillion, seven hundred-fifty billion words, or **10 trillion, five-hundred billion characters**)!

+ The brain can function at ten thousand trillion computations per second (10,000,000,000,000,000 / **10¹²**).

+ The typical human brain, at a mere 3 pounds, is considered to be the most orderly matter in the universe.

* We have 100 trillion cells in our body, and each cell has **DNA** in its chromosomes. The DNA from just one cell is six feet long. If we stretched out our entire individual DNA, it would reach one hundred billion miles.

That's just from one body! Yet, if you took the DNA from every cell in all of the 7.5 billion people alive today, it would weigh just 1/1000 of an ounce!

And, of course, all of this occurs without our being cognitively aware of any of it!

– Richard A. Swenson, M.D., *More Than Meets the Eye . . .*

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*“At the speed of light itself, **time stands still**. The theory of relativity does not permit [a thing of substance] to achieve this speed, but a light pulse can. From the point of view of the pulse, no time at all elapses as, **in our frame of reference**, it sweeps across the solar system. It is here, then it is there—**instantly!**”*
 – P. Davies, (*About Time: Einstein’s Unfinished Revolution*, p190)*

*(1999)

“[A]n observer-centric an-isotropic synchrony convention eliminates the distant starlight problem by reducing *inward-directed* light travel-time in the **reference frame of the observer** to zero.... *Einstein tells us that **motion affects the passage of time.***”
 - J. Lisle, (“Anisotropic Synchrony Convention—A Solution to the Distant Starlight Problem,” pp1,6 – *emphasis added*)

*(2006)

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Velocity

AFFECTS

Crazy?



Time

Time Dilation

In our finite *frame of reference*, at 14%* the speed of light, our time scale begins to change.
 At 99.99+% the speed of light, a photon travels at near instantaneous velocity.

* A clock slowed by 1% relative to a stationary counterpart would move at 14% SoL, or 94 million mph – Lisle, J., *The Physics of Einstein*, p43

TIME is not a constant / The inherent velocity of light is the constant!

Motion affects Time!



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Motion affects Distance!



Velocity

AFFECTS



Distance

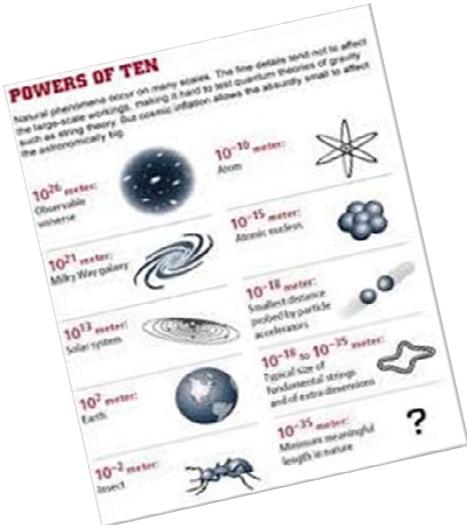
Length
Contraction

LENGTH *is not* a constant –
The inherent velocity of light *is* the constant!

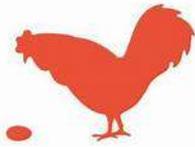
Motion affects Length!

Venus	25.8MILLION
Mars	48.6MILLION
Mercury	57MILLION
The Sun	93MILLION
Jupiter	390.6MILLION
Saturn	777MILLION
Uranus	1.69BILLION
Neptune	2.7BILLION

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The Effects of RELATIVITY



PARADOX

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In a moment we are going to watch a brief film clip that will show, in graphic detail, the *challenge to our conventional thinking*.

There are several points of information on this film which require that you pay close attention not only to the motion picture, but especially to the accompanying narration and instrument panel.

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When it comes to the starlight travel issue, the underlying, operating principle, is that the light-beam from the distant galaxy traveling at the inherent speed of light, arrives at the eye of the observer *instantaneously*.

Not over the course of millions and billions of (light) years.

Recall that a Light-year is a measurement of distance, not time

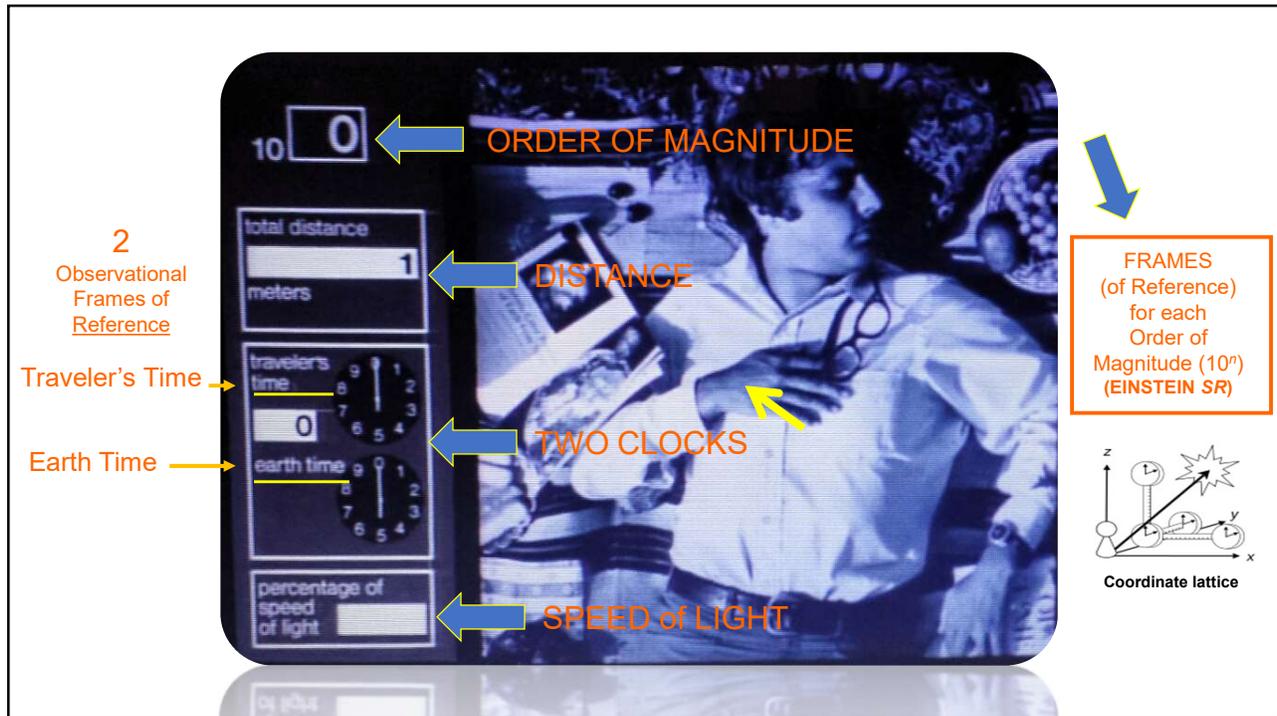
Think **ly-d** (where d = distance)

Just HOW does this happen?

Watch this film carefully,
and witness this phenomenon in action . . .

See "Resources" below

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The Powers of Ten (1967 draft)

POWERS OF TEN
A FILM DEALING WITH
THE RELATIVE SIZE OF THINGS IN THE UNIVERSE
AND THE EFFECT OF ADDING ANOTHER ZERO
MADE BY THE OFFICE OF
CHARLES AND RAY EAMES
FOR
IBM

4-position of event
(x, y, z, t)

observer O
at the origin
of coordinate
frame F

clocks and rulers
in x, y, z directions

Coordinate systems (i.e., lattice)

Note: Clip shown under Fair Use guidelines
* https://www.youtube.com/watch?v=7f5x_dRKIF4

https://www.youtube.com/watch?v=7f5x_dRKIF4&list=PLRA3qx9m4k-NkIpDLr_pMqF_e9INHqxDc
https://www.youtube.com/watch?v=7f5x_dRKIF4&list=PLTPGepTVGYbfhSSGFrjRFMeWJOHR2mIHL
https://www.youtube.com/watch?v=7f5x_dRKIF4&list=PL92d89E6ZXbOCnYoP-9dJvsK5XRDIE_ep
https://www.youtube.com/watch?v=7f5x_dRKIF4&list=PLPKcWGiAsvRIDjwlp5Q5ze0RJQw8-Yjr

See "Resources" below

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 A slide titled "The Cosmic Mirage..." (Schweigerdt, 1999). It features a central image of a man in a white shirt looking at a control panel. The panel has several sections:

- A box with the number "26" and "(24)" below it, with a blue arrow pointing to it from the left.
- A section labeled "total distance" with the text "10 billion ly = <math>< 5 \text{ min.}^*</math>" and "meters" below it, with a blue arrow pointing to it from the left.
- A section labeled "travelers time" with a vertical scale from 1 to 9 and the number "240" and "seconds" below it, with a blue arrow pointing to it from the left.
- A section labeled "earth time" with a vertical scale from 1 to 9 and the text "100 Million years" below it, with a blue arrow pointing to it from the left.
- A section labeled "percentage of speed of light" with the text "99+%" below it, with a blue arrow pointing to it from the left.

 To the right of the man is a diagram showing a 3D coordinate system with x, y, and z axes. A starburst is at the origin, and a line extends from it. There are also some circular symbols and a clock-like icon.

FRAMES
(of Reference)
for each
Order of
Magnitude (10⁹)
(EINSTEIN SR)

* @ 99%+ SoL; cf. "The Cosmic Mirage..." (Schweigerdt, 1999)

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2 Very subtle Deceptions

When it comes to the AGE OF THE UNIVERSE, there is a very subtle psychological deception at play, a numbers bait-and-switch on a cosmic scale!

This deception is seen graphically in the “Powers of Ten” productions, both the draft as well as the final version.

In the “Total Distance” box at the top of the panel to the left of the film the information given is correct, in terms of actual distance covered (the **bait**). This begins as “meters” covered at 10^1 .

However, at 10^9 the numerical terminology takes a notable turn: a “thousand million” rather than a simple “billion.” This pattern continues through a “million million” – at 10^{12} (rather than a “trillion”), through a thousand million million (rather than 1 quadrillion) meters at 10^{15} .

At 10^{16} the **switch** is made from terms **depicting distance** (meters) to that of “Light-year.” Here again the strange increasing pattern continues: There is no indication that 1 light-year is 6 trillion miles (DISTANCE); and when light-years increase we learn that at 10^{25} we reach 1,000 million (1 billion) light-years, rather than 6 sextillion miles!

The final subtle deception occurs when the term “light” is **dropped** from the measurement (of distance!) and we end up with **YEARS** (a measurement of time)! **How old is the universe? “. . . 10 to 20 billion YEARS old! (NO! It’s really 58.6 sextillion miles DISTANT!)**

Think **ly-d** (where *d* = distance)



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Homework! #1

1. Why The Speed Of Light Can't Be Measured
3,301,230 views October 31, 2020
2. www.youtube.com/watch?v=pTn6Ewhb27k
3. See “Resources” below
4. Go To: www.faithandscienceintersect.org/class-resources

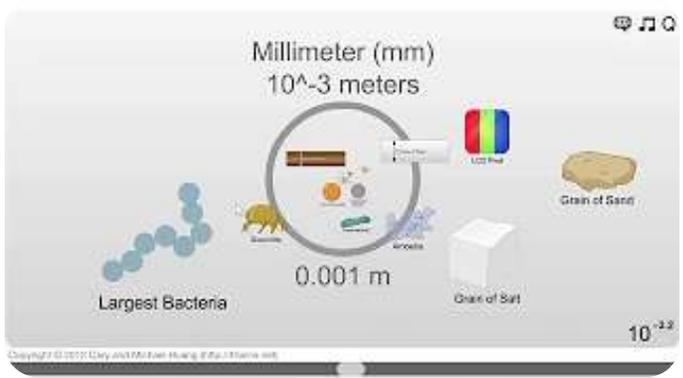
Search YouTube: Why The Speed Of Light Can't Be Measured

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Scale of the Universe (everything, from the Universe, all the way to Planck Length)

Homework!
#2

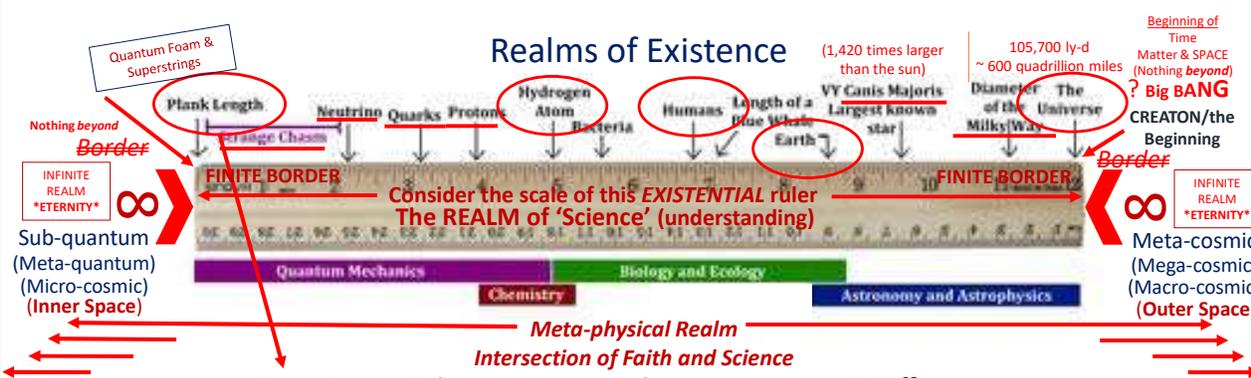
www.youtube.com/watch?v=5AAR7bNSM_s



See "Resources" below

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Realms of Existence



**Consider the scale of this EXISTENTIAL ruler
The REALM of 'Science' (understanding)**

**Meta-physical Realm
Intersection of Faith and Science**

Plank Length: Defines the divisibility of the quantum world @ 10^{-35} m
and is, **hypothetically, the length below which the concept of length loses meaning.**

And at the Planck Length [10^{-35} m]
ordinary SPACE and TIME cease to exist!

And by extension, Matter and Energy are transformed into **INFORMATION!**
And Vice-a-versa !!!

(The WORD/Information transformed into Energy//Matter)

**Paraphrase of
Genesis 1:1-2
John 1:1**

In the Beginning was The Word:
(spoken) 'Let there be Light.'

Place Key Legend

h = hundreds
th = thousands / 10^3
m = millions / 10^6
b = billions / 10^9
tr = trillions / 10^{12}
tr2 = quadrillion / 10^{15}
tr3 = quintillion / 10^{18}
tr4 = sextillion / 10^{21}
tr5 = septillion / 10^{24}
tr6 = octillion / 10^{27}
tr7 = nonillion / 10^{30}
tr8 = centillion / 10^{33}

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44

Intelligence and INFORMATION –
were at the beginning

In the beginning. . .

the BEGINNING. . .

Was the WORD . . .

And the WORD was with God . . .

And the WORD was God.

The WORD was at the Beginning! *John 1:1*

45

Intelligence and INFORMATION –
were at the beginning

And the WORD became *flesh* . . .

and dwelt among us.

(And we beheld His glory,
the glory as of the only
begotten of the Father,)

full of *grace* and *truth*.

John 1:14

46

When it comes to physics, it is important to realize that . . .

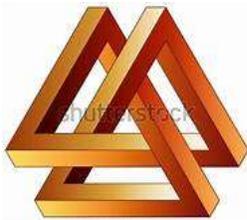
Newtonian physics is *MECHANICAL*

Einsteinian physics is *PARADOXICAL*

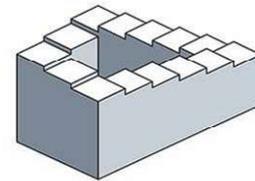
Quantum physics is *PHANTASMICAL*

It is difficult for the analytical, logical, mathematically-inclined mind to reason the paradoxical; and it is hard for any of us to imagine things that are not of "common sense" value. Yet the Christian Scriptures are replete with *paradoxical principles* meant as guides for Christian living:

47



- *See unseen things* (2 Corinthians 4:18)
- *Conquer by yielding* (Romans 6:16-18)
- *Find rest under a yoke* (Matthew 11:28-30)
- *Reign by serving* (Mark 10:42-44)
- *Made great by becoming small* (Luke 9:48)
- *Exalted by becoming humble* (Matthew 23:12)
- *Become wise by being fools for Christ's sake* (1 Cor. 1:20,21)
- *Made free by becoming bond-servants to Him* (Romans 6:17-20; 8:2)
- *Possess all things by having nothing* (2 Corinthians 6:10)
- *Wax strong by being weak* (2 Corinthians 12:10)
- *Triumph through defeat* (2 Corinthians 12:7-9)
- *Find victory by glorying in our infirmities* (2 Corinthians 12:5)
- *Receive by giving* (Luke 6:38)
- *Live by dying* (John 12:24, 25; 2 Corinthians 4:10, 11)



48

It is as one discerning soul so eloquently put it:

FAITH is —

Seeing the *unseeable*;

Knowing the *unknowable*;

Believing the *unbelievable*;

So that we can —

Achieve the impossible!



49

History – *HisStory*

Past, PRESENT, Future

The An-isotropic Synchrony Convention (ASC) explanation for distant starlight travel accounts for both the initial Creation account on Day 4, and the same convention remains operative today.

Nothing has occurred in history (or *HisStory*) which changes the convention.

ASC postulates that light from a distant stellar object travels at infinite velocity, from its point of origin to a particular reference frame (i.e., earth) instantaneously, at 6,000 years ago, as well as at the present time. When one peers into the heavens s/he is observing distant objects as they appear in real time relative to the observer's frame of reference irrespective of the reference frame of the *moving* photon.

At the inherent speed of light, length and time actually lose meaning, in the same manner as the existential Present (location and time) lack dimensional/durational meaning. Such insight was fully operational in ancient times until relatively recently, and today, in our current context, is cognitively dissonant and counterintuitive unless a full and true historical perspective is adopted.

50

Deeply Counterintuitive!

If we follow the commonly established way of observing things in the universe, when we think we observe Alpha Centauri as it was 4 years ago in the past, then where do we think it is now - today?

Following Big Bang time conventions we can't know the star's present location *now* until we wait for 4 years in the future to determine if we are correct or not!

We might prefer to reason like that in our normal, everyday reference frame.



Alpha Centauri



Tarantula Nebula

But what about the Tarantula Nebula which is located 170,000 ly-*d* from us? If we see today the light emanating from this object in the Magellanic Cloud (orbiting the Milky Way) as it was 170,000 years ago, then where is it actually located today? Using the ESC isotropic synchrony convention we won't know the answer for another 170,000 years! This is deeply counterintuitive and actually beyond comprehension!

We tend to assume that TIME is (1) universal; and (2) unaffected by motion.



51

Cognitive Dissonance

Deeply Counterintuitive!

2 Choices Two Conventions

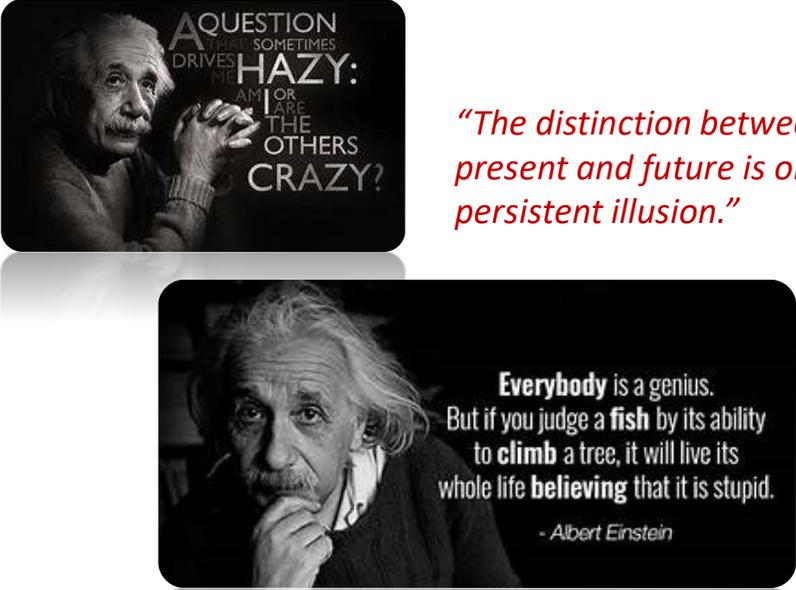
1. Isotropic Synchrony Convention
(ESC / 2-way / Stipulated)
2. An-Isotropic Synchrony Convention
(Visual Synchrony Convention)
(In Real Time / 1-way / Stipulated)



Effects on Faith

"Back to the Future" is fantasy & SCIENCE FICTION!

52

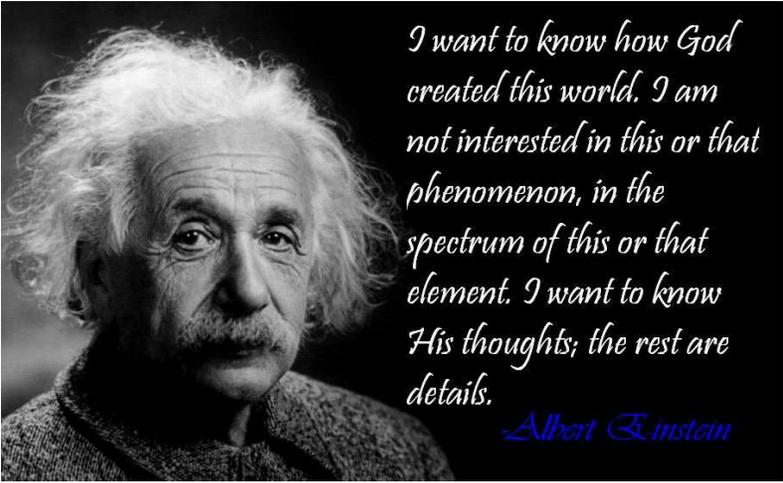


AQUESTION
SOMETIMES
DRIVES HAZY:
AM I OR
ARE THE
OTHERS
CRAZY?

*“The distinction between the past,
present and future is only a stubbornly
persistent illusion.”*

Everybody is a genius.
But if you judge a **fish** by its ability
to **climb** a tree, it will live its
whole life **believing** that it is stupid.
- Albert Einstein

53



*I want to know how God
created this world. I am
not interested in this or that
phenomenon, in the
spectrum of this or that
element. I want to know
His thoughts; the rest are
details.*
- Albert Einstein

Beyond Comprehension?

54

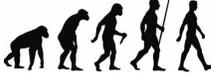
Ultimate Choices
We have 2 – Worldviews 

*God offers to every man his choice
between truth and repose:
Take which you please; you can
never have both.*
- Emerson

Biological Evolution

OR

Divine Creation


Goo – Zoo – You

*Millions/billions of years
Index Fossils and Missing Links
Employing circular reasoning and
wishful thinking
Junk DNA and Evolution via mutations*



*Genesis 2:7 – And the Lord God formed
man of the dust of the ground, and
breathed into his nostrils the breath of
life; and man became a living soul.*

Geological Evolution

OR

Divine Creation



*Billions of years
Index Fossils and Geological Time*



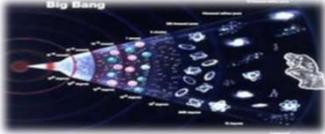
*Genesis 1:1 – In the Beginning God
created the heaven and the earth.*

55

Cosmological Evolution

OR

Divine Creation



*Big Bang Cosmology
Billions of Light-years Time
Historical Time-frame
(over 14 billion years)
Cognitive Dissonance*



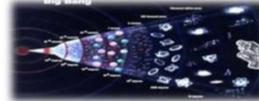
*Psalms 19:1 – The heavens declare
the glory of God; and the firmament
showeth his handiwork.*

56

Ultimately it's a Choice between *Religion* and a *Relationship*
(The Notion of Evolution is Inherently Religious)



- **Doctrine** (Origin and Evolution of Species by Means of Natural Selection)
- **Prophets**, Priests, Professors, Disciples (Darwin, Lyell, Gould, Sagan, Hawking, Dawkins, etc.)
- **Scriptures** (Old Testament: *On the Origin of Species*. . . New Testament: *The Descent of Man*. . .)
- **A Holy Trinity** (Mother Nature / Father Time / Lady Luck)
- **Plan of Salvation** (Survival of the Fittest)
- **Miracles** ("Out of nothing came everything!")
- **Theory of Origins** (**BIG BANG!**)
- **Mantra** ("Once Upon A Time. . .")
- **Favorite Hymn** ("I Did it My-y-y Way-y-y-y")
- **Icon** (Darwin Fish)
- **Holy Days** (February 12, April 1, October 31)
- **Seminaries** (Science classrooms)
- **Temples** (Natural History Museums); **Cathedrals** (i.e., Westminster Abbey); **Sanctuaries** ("Back to Nature")
- **Creator** (Chance / Time – lot's of TIME!)
- **An Inquisition** (Note: Prof's Demski, Gularimo, Bretz, etc.; see – "Expelled: No Intelligence Allowed")
- **A World-view** ("**Red** in Tooth and Claw!")



57

The alternative is a **RELATIONSHIP** with the Creator –
 'Christ is the exact likeness of the unseen God.
 He existed before God made anything at all, and,
 in fact, Christ himself is the Creator
 who made heaven and earth,
the things we can see,
and the things we cannot;
 the spirit world with its kings and kingdoms,
 Its rulers and authorities;
 all were made by Christ . . .
 for his own use and glory. (Colossians 1:15-19)

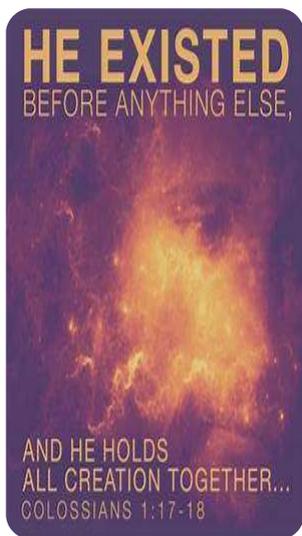
58

The layman queries, *There is no God?* All of the wonders around us are accidental? No almighty hand made a thousand billion stars? They made themselves? The surface of our land just happens to have topsoil without which we would have no vegetables to eat, and no grass for the animals whose meat is our food? The inexhaustible envelope of air, only 50 miles deep and of exactly the right density to support human life, is just another law of physics?

We have day and night because the earth spins at a given speed without slowing down. Who made this arrangement? Who tilts it so that we get seasons? The sun's fire does not generate too much heat so that we fry, but just enough so that we do not freeze. Who keeps its fire constant?

The human heart will beat for 70 or 80 years without faltering. How does it get sufficient rest between beats? A kidney will filter poisons from the blood and leave the good things alone. How does it know one from the other? Who gave the human tongue flexibility to form words, and who made a brain to understand them? Is it all accidental?

59

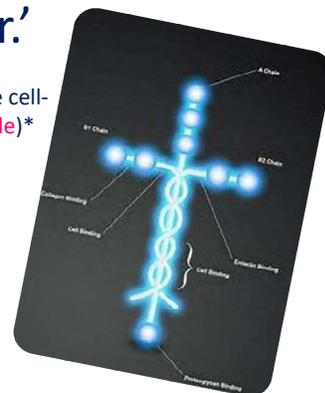


He was before all else began,
And it is his power that holds
everything together.'

(Consider the *Laminin Protein Molecule* – the cell-
adhesion molecule! **The ADHESION molecule**)*

See "Resources" below

*In the final analysis, SCIENCE is the
study of the systematic way that God
currently upholds His creation.*



60



61

Resources
(partial)

Genesis 1 / Creation and Starlight and Time:

Davies, P., *About Time: Einstein's Unfinished Revolution*, Orion Productions (1995) / Touchstone Edition (1996), esp. pp 62-65, 81-83, 140-145, 193.

Clark, R.W., *Einstein: The Life and Times*, World Publishing, 1971

Einstein, A., *Relativity: The Special and the General Theory*, (1916) – translated by Holt /& /Co, 1980

Discovery Institute: scienceuprising.com/

Fields, Weston W., *Unformed and Unfilled: A Critique of the Gap Theory*, 1976, Bergener Enterprises

Genesis Apologetics: Distant Starlight vs. the Biblical Timeline" www.youtube.com/watch?v=BGvds-t5Jy0

Short Version - Online - → [Lisle, J., *An-isotropic Synchrony Convention \(ASC\) — A Solution to the Distant Starlight Problem*, 2010. \[answersingenesis.org/astronomy/starlight/distant-starlight-thesis/\]\(http://answersingenesis.org/astronomy/starlight/distant-starlight-thesis/\)](http://answersingenesis.org/astronomy/starlight/distant-starlight-thesis/)

Academic Paper - Online - → answersingenesis.org/astronomy/starlight/anisotropic-synchrony-convention-distant-starlight-problem/

Most recent - 2020 - → **Secrets of the Cosmos that Confirm the Bible (Lisle @53:10 in): www.youtube.com/watch?v=afXQomQ7Gqo 2020 (5-Part series: "Distant Starlight in a Young Universe") - biblicalscienceinstitute.com/apologetics/distant-starlight-in-a-young-universe-an-introduction/*

*"Cosmology Problems" (Lisle/2019, also *@56:15 in): www.youtube.com/watch?v=8y5D35iKeYg*

**The Physics of Einstein: Black holes, time travel, distant starlight, E=mc2, J. Lisle, 2018 (book biblicalscienceinstitute.com/ Order Esp. pp208-269)*

(continued)

biblicalscienceinstitute.com/product/the-physics-of-einstein/

62

Resources (cont.)

“Powers of 10,” (Note: ‘*A Rough Sketch . . .*’ This draft version is a visual depiction of the Special Theory of Relativity as a mini-film production: www.youtube.com/watch?v=7f5x_dRKIF4)

Schweigerdt, B., “Evolution As Myth: Scientific Orthodoxy and its Implications for Society,” 1995 monograph, www.genesisforumacademy.org/documents/EvolutionAsMythcompressed.pdf

Schweigerdt, B., “The Cosmic Mirage: Space, Time and the Relative Age of the Universe,” 1999 monograph, www.genesisforumacademy.org/documents/CosmicMirage.pdf

Schweigerdt, B., “Lightyear Misapplied,” 2006 monograph, www.genesisforumacademy.org/documents/Light-yearMisapplied.pdf

Schweigerdt Archives: www.genesisforumacademy.org/library/schweigerdt-archive-bruce-schweigerdt-ma

Wood, N. R., *The Secret of the Universe: God, Man and Matter*, Eerdmans Publishing, 1932-
www.amazon.com/Secret-Universe-Nathan-R-Wood/dp/1456551329

Biblical Chrono-genealogy:

Is Genesis History?: isgenesishistory.com/

Ozanna, C.G., *The First 7000 Years*, Exposition Press, 1970, (Note: This author covers in extensive detail the chronologies of the Bible.)

Patterns of Evidence, “The Exodus”, YouTube video: patternsofevidence.com/

Schweigerdt, B., “The Genealogies of Jesus: The Chrono-genealogical Record of History [The Historical Framework of History: Matthew/Luke/Old Testament References],” 2003 monograph, www.genesisforumacademy.org/documents/THEGENEALOGIESOFJESUS.pdf

(continued)

63

Resources (cont.)

Other:

*Secrets of the Cosmos that Confirm the Bible (Lisle @48:00): www.youtube.com/watch?v=afXQomQ7Gqo

Why The Speed of Light Can't Be Measured: www.youtube.com/watch?v=pTn6Ewhb27k

How Far is the Edge of the Universe? (Total Confusion!): www.youtube.com/watch?v=u23vZsJbrjE

Try Believing in Evolution After This!: www.youtube.com/watch?v=g1pVt623_6w

Schweigerdt, B., “Evolution and Religion,” 2008 monograph, www.genesisforumacademy.org/documents/EvolutionAndReligion_000.pdf

Why Did the Church Switch from Believing in Creation to Evolution? - Dr. Douglas Kelly: www.youtube.com/watch?v=yEr2lZSeFJg&app=desktop

Creation Science Websites:

Answers in Genesis (Creation Museum, Ark Encounter): answersingenesis.org/

Creation Museum: creationmuseum.org/

ARK Encounter: arkencounter.com/

Biblical Science Institute (Dr. Jason Lisle): biblicalscienceinstitute.com/

Creation Ministries International: creation.com/

Creation Research Institute: icr.org/

(continued)

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Resources (cont.)

Genesis Apologetics (Folsom, CA): genesispologetics.com/

Glendive Dinosaur and Fossil Museum (Glendive / Hell Creek Formation, MT): creationtruth.org/

Majesty of God’s Creation:

Scale of the Universe (of everything, from the Universe, all the way to Planck Length):

www.youtube.com/watch?v=5AAR7bNSM_s

Star Size Comparison (Oh, The Majesty of God!): www.youtube.com/watch?v=GoW8Tf7hTGA

Psarris, S., www.creationastronomy.com/

“Our Created Solar System” (video)

“Our Created Stars and Galaxies” (video)

“Our Created Universe” (video)

Swenson, Richard A., M.D., *More Than Meets the Eye: Fascinating Glimpses of God’s Power and Design* -

Al-Khalili, J. (Interesting programs produced by a professed atheist/humanist, on such items as atoms, information, the age of the universe, etc. Can be viewed on You Tube)

How Great is Our God (*Laminin*) / Louie Giglio: www.youtube.com/watch?v=zocnmbd07a4

“Expelled: No Intelligence Allowed” (movie) - www.youtube.com/watch?v=V5EPymcWp-g

“Science Uprising:” - www.youtube.com/watch?v=Fv3c7DWuqpM&list=PLR8eQzfCOiS1OmYcqv_yQSpje4p7rAE7-&index=1



65

The Intersection of Faith and Science ©

For since the creation of the world God’s invisible qualities – his eternal power and divine nature – have been clearly seen, being understood from what has been made.

- Romans 1:20

The End

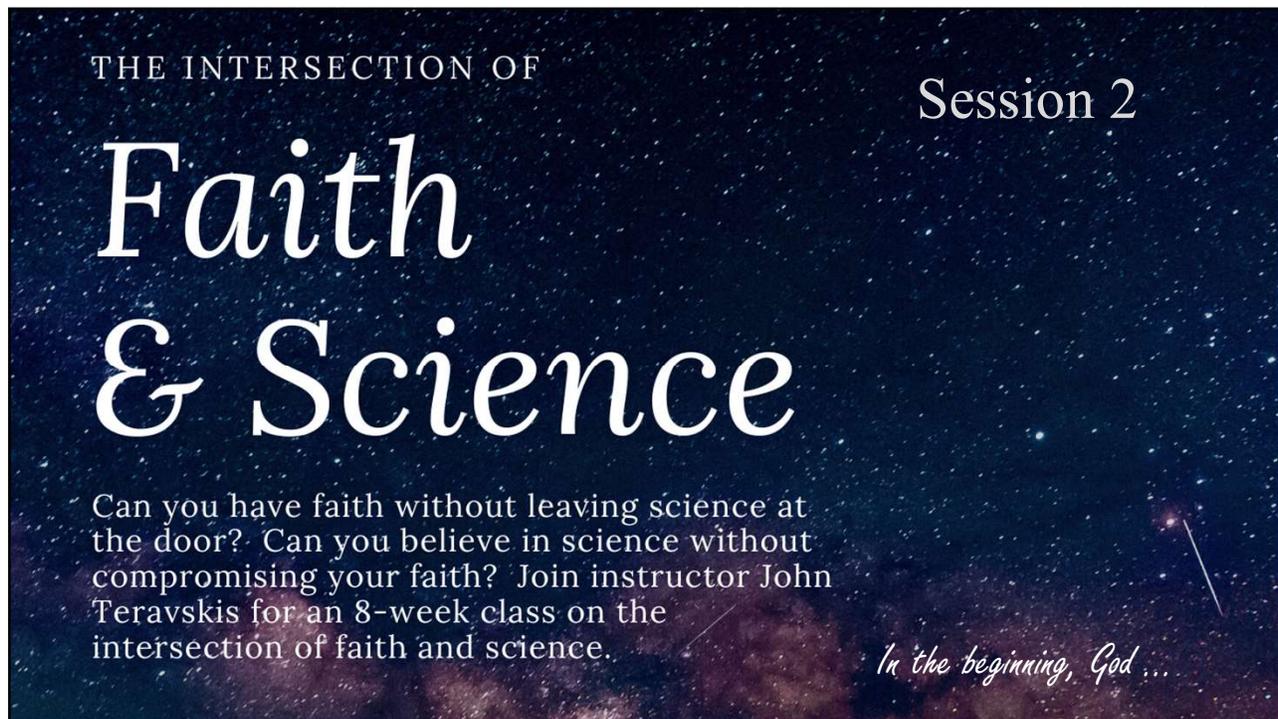


Bruce Schweigerdt, M.A.
Presenter

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January 2021

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THE INTERSECTION OF

Session 2

Faith & Science

Can you have faith without leaving science at the door? Can you believe in science without compromising your faith? Join instructor John Teravskis for an 8-week class on the intersection of faith and science.

In the beginning, God ...

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ADDENDUM A

A Little Secret About the Age of the Universe
Cataclysm vs Catastrophism
A Brief History of Christian Theology (11)

68

A Little Secret about the “Age of the Universe”

In the 1990 edition of the *Science Framework for California Public Schools* that was used during much of my tenure in teaching, educators were instructed to explain that, “**The universe is very old. Estimates based on the information currently available yield an age somewhere between 18 and 21 billion years. Though that estimate may yet be revised to a greater age.** [NOTE: *Not a younger age!*] **There is strong evidence that the universe ‘began’ with a colossal explosion called the “Big Bang.”** (p85)

Now, professed Christian astronomer Hugh Ross has fudged this age downward; in 1989 from “...the secure conclusion that the universe is **roughly 16 billion years old**” (*Fingerprint of God*, p158), to today’s scientific doctrine of **13.7 billion years**, which, according to him, is now the unequivocal age of the universe.

Now, that is a big difference!

Consider this

In just twenty-five (25) years the age of the universe has shrunk from **18-21 billion years (and more!)** down to less than **fourteen (14) billion years**, about seven (7) billion years, or 1/3 its previously assigned age.

69

Now, if this trend in age decline were to continue, in another twenty years (in 2040) the age of the universe will be “absolutely” (as Ross means to imply) 9.05 billion years old, and by 2065 it will be six (6) billion years old. 2090 gets us to four (4) billion, and by the next century (2100) we’re down to around three (3) billion years old!

NOTE: According to the most recent *California Science Framework* publication (2004), “Recent verification from radio waves and other data that a 3K background radiation, or low-level microwave background “noise,” exists throughout the universe has led to the acceptance of the big bang model of an expanding **universe that is 10 to 20 billion years old.**” (p259) (Recall the 18 – 21 billion age *Science Framework* estimate given just *fourteen years* earlier – and my 9.05 billion prediction above!)

And now we know that the Creation is billions of years old by the amount of ‘low-level background noise’ that exists in the universe! REALLY?!

70

Cataclysm vs Catastrophism



World Trade Center
New York City
1990



1993 Terrorist Bombing
Catastrophe



1993 Terrorist Bombing

6 Killed

1,000+ Injured

Intention was to topple Tower 1 which would fall into Tower 2, killing the occupants of both buildings, which terrorists estimated to be about 250,000 people.

2 Peter 2:5

Genesis 7:17-24

Kataklusmos

not

“flood”

9/11/01 Terrorist Attack



Cataclysm

NOTE: This representation is certainly inadequate; but it is a reasonable comparison

71

A Brief History on *Creation Theology* (Biblical Christianity)

1500's (16th Century)

Gutenberg Printing Press (~1455 - Germany) (1st book printed was Bible in *Latin*) (*Illiteracy*)
Protestant Reformation (1517 – Martin Luther – Germany) (German Bible – for the masses)

1600's

Bishop James Ussher ('4004' BC) (England) *The Annals of the World*
German Higher Criticism (*Interpretational Theology* – 'eisegesis')

1700's

Sir Isaac Newton (England) (Unitarian – 1+1+1=3 / 1x1x1=1)
Age of Science / 'Scientific Method' – from Francis Bacon
James Hutton (1785) *Theory of the Earth*

1800's

Charles Lyell (*Principles of Geology*; 1830) (England)
UNIFORMITARIANISM 'The Present is Key to the Past'
'Vast ages;' 'deep time;' ~~.....~~

Charles Darwin (*Origin of Species* . . . ; 1857) (England)
The Origin of Species by Means of Natural Selection; Or, the Preservation of [Favored Races] in the Struggle for Life

Rev. Thomas Chalmers ('Gap Theory' – 1814)

1900's 'Dispensational Truth' 'Dateless past'

Dispensational Movement (England/America)
George Pember (1909) *Earth's Earliest Ages*
C.I. Scofield (*The Scofield Reference Bible*) (1909)



1961

ICR – Institute for Creation Research
AiG – Answers in Genesis
CIM – Creation Ministries International
CT – Creation Today
GA – Genesis Apologetics
BSI – Bible Science Institute



Battle over the Bible

'Racialism' (*The Descent of Man* – 1883)

72

A Troublesome Issue and Major Stumbling Block

Over **the past 500 years** there has been an ongoing struggle between a clear understanding of the biblical text, and the speculative ‘scientific’ community, with 3 primary areas of focus:

- 1) The **Flood** of Genesis 6-9;
- 2) The **GAP Theory** of chapter 1 verses 1-2;
- 3) The notions of **chaos and ruin** on the earth in chapter 1, verse 2.

C.I. Scofield was an *old-earth* believer (he held to the Gap Theory – earth and universe are millions/billions of years old) who felt led to make the Bible easier to study and understand; but when he confronted the Creation account found in Genesis 1 there was already a problem (**in his mind**):

How do you square a biblical account that renders the earth and universe to be *only* a few thousand years old, while most science-fed pundits vociferously proclaim the universe, the earth, and life to be billions of years old?

Scofield astutely knew that one *should not change* the words of Scripture; but **he did other things to and around the text** to bring confusion and misunderstanding, believing that he was actually providing clarity to the account. He thought it prudent to avoid the admonition proclaimed in Revelations 22.

By looking at just the first page (Genesis 1) of the *Scofield Reference Bible*, it is easy to see his methodology, and then understand the destruction he subsequently brought to the textual reading.

73

The Scofield Reference Bible (and notes) (and headings) (and Scofield's Worldview)

Genesis (Within Scofield's Worldview Framework!)

<p style="text-align: center;">CHAPTER 1 <i>The original creation</i></p> <p>In the beginning ¹ God ² created the heaven and the earth.</p> <p style="text-align: center;"><i>Earth made waste and empty by judgment</i> (Jer 4:23-27)</p> <p>2. And the earth was³ without form,</p>	<p>B.C. 4004</p> <p>-----</p> <p>a. John 1:1 b. Deity... c. Holy Spirit</p>	<p>and void; and darkness was upon the face of the deep. And the Spirit of God moved upon the face of the waters.</p> <p style="text-align: center;"><i>The new beginning—the first day;</i> <i>Light diffused.</i></p> <p>3. And God said, Let there be⁴light; and there was light.</p> <p>4. And God saw the light, that it was</p>
---	---	--

¹ (1:1) *Elohim* (sometimes.)

² (1:1) . . . The first creative act refers to the dateless past, and gives scope for all the geologic ages.

³ (1:2) Jer. 4:23-27, Isa. 24:1 and 45:18, clearly indicate that the earth had undergone a cataclysmic change as the result of a divine judgment. The face of the earth bears everywhere the marks of such a catastrophe. There are not wanting intimations which connect it with a previous testing and fall of angels. See Ezk. 28:12-15 and Isa. 14:9-14, which certainly go beyond the kings of Tyre and Babylon.

⁴ (1:3) Neither here nor in verse 14-18 is an original *creative* act implied. A different word is used. The sense is, made to *appear*; made *visible*. The sun and moon were *created* "in the beginning." The "light" of course came from the sun, but the vapour diffused the light. Later the sun appeared in an unclouded sky.

Note: The "divine judgment" and subsequent "cataclysmic change" has "... the earth bear[ing] everywhere the marks of a catastrophe" is best portrayed in Genesis 6-9 (The GREAT FLOOD) and not the result of a judgment on fallen angels, referred to as the *Luciferian Flood* (cf. 2 Peter 2&3) In fact, Genesis 3:14 is the actual judgment of Satan on the earth.

74

The Scofield Reference Bible

GENESIS 1

INTRODUCTION

Genesis is the book of beginnings. It records not only the beginning of the heavens and the earth, and of plant, animal, and human life, but also of all human institutions and relationships.

Typically, it speaks of the *new birth*, the new creation, where all was chaos and ruin.

With Genesis begins also the progressive self-revelation of God which culminates in Christ . . .

77

New International Version (NIV) of The Holy Bible

1978

Genesis 1:2

2. Now the earth **was^a** formless and empty....

^a2 Or possibly ~~became~~

Note: Through the use of the word "POSSIBLY," doubt and confusion are introduced into the *Bible*.

Comparison of KJV and NIV

http://www.hissheep.org/kjv/a_comparison_of_the_kjv_niv.html

78

The Living Bible (Paraphrased)

1962/1971

Genesis 1:4-5

4. And God . . . divided the light from the darkness. So he let it shine for awhile, and then there was darkness again. He called the light “daytime,” and the darkness “nighttime.” Together they formed the first day.^e

← footnote

 footnote →^e Literally, “And there was evening and there morning, one day (or, ‘period of time’).”

(Genesis 1) Day = period of TIME! 6 times!

Note (again!): Through the use of the word “OR,” doubt and confusion are introduced into the *Bible*.

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A Resolution* (Genesis 1:1-3)

In the beginning, God created the heaven and the earth.

Genesis 1, verse 1, is a proclamation of *contextual* ‘Time,’ and the *introduction* of a tangible, material universe narrative: The heaven and The earth.

And the earth was without form, and void. . .

Genesis 1, verse 2 – with the earth in center focus – presents the *ideation* of an earth that was, as yet, unformed and unfilled.

The commencement of Day 1

. . . and darkness was upon the face of the deep.

And the Spirit of God moved upon the face of the waters.

*And God said, Let there be light;
and there was light.*

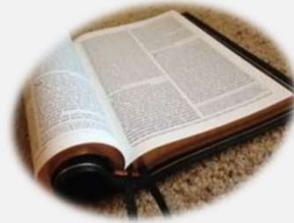
Genesis 1, verse 3: God commences the creation process, *by His Word*, and *commands* the initiation of (light), the Energy // Matter continuum (Note: $E=mc^2$).

* Bruce Schweigerdt

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‘They were very willing to receive the message,
and every day they carefully examined the Scriptures
to see if those things were so.’

– Acts 17:11 (ISV)



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Is Genesis History?

Why Did the Church Switch from Believing in Creation to Evolution?

<https://www.youtube.com/watch?v=yEr2lZSeFJg>

*Most of all here's the issue: When you and I will stand
before God, we must not answer whether something was
pragmatically helpful, but whether or not its true.*



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THE INTERSECTION OF

Session 2

Faith & Science

Can you have faith without leaving science at the door? Can you believe in science without compromising your faith? Join instructor John Teravskis for an 8-week class on the intersection of faith and science.

In the beginning, God ...

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