

# **“From Whence Science – can a Christian be a Scientist?”**

**Robert J. Marks II, Ph.D.**

Distinguished Professor of Electrical & Computer Engineering

Baylor University

Robert\_Marks@Baylor.edu

# The New Atheists



Dawkins



Myers



Hitchens



Provine



**“Christian theism must be rejected by any person with even a shred of respect for reason” George H. Smith, Atheist Philosopher**

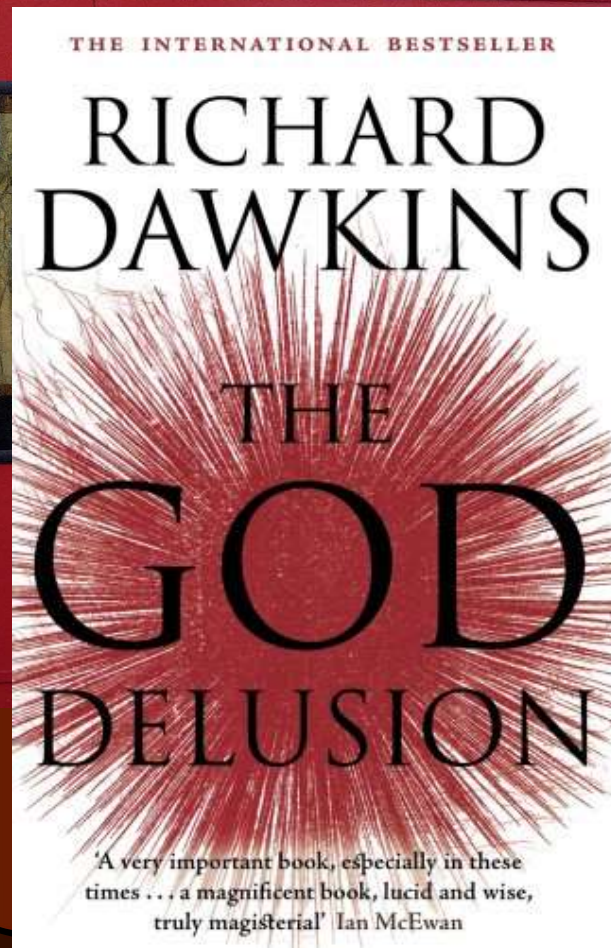
# Peter Atkins



# Richard Dawkins

**THERE'S PROBABLY NO GOD.  
NOW STOP WORRYING AND ENJOY YOUR LIFE.**

[www.humanism.org.uk](http://www.humanism.org.uk)  
[www.richarddawkins.net](http://www.richarddawkins.net)  
[www.atheistcampaign.org](http://www.atheistcampaign.org)





# Richard Dawkins



# Another list: Romans 1

- <sup>29</sup> [Atheists] have become filled with every kind of wickedness, evil, greed and depravity. They are full of envy, murder, strife, deceit and malice. They are gossips, <sup>30</sup> slanderers, God-haters, insolent, arrogant and boastful; they invent ways of doing evil; they disobey their parents; <sup>31</sup> they have no understanding, no fidelity, no love, no mercy.

# P.Z. Myers



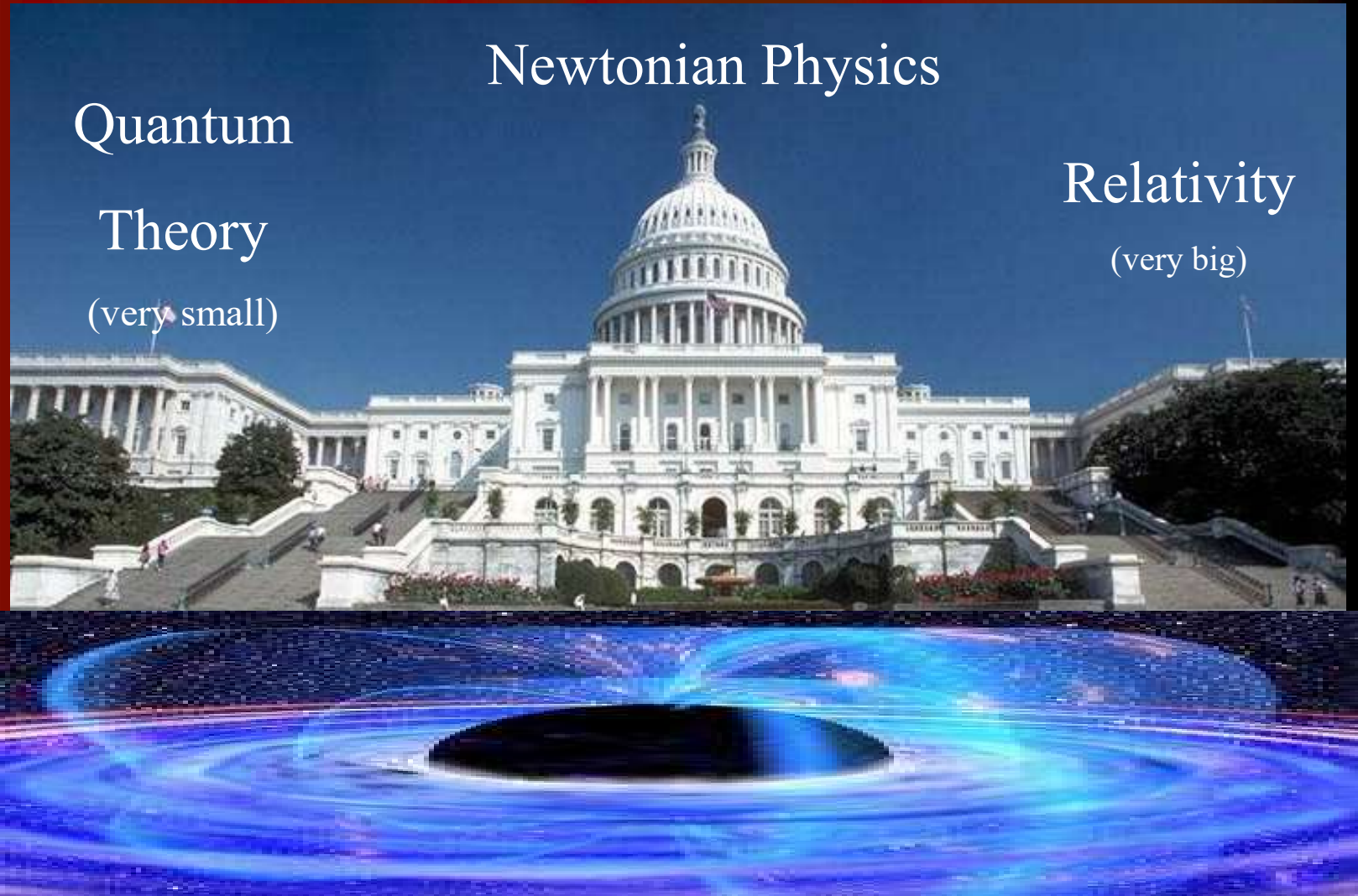


- “The more I study nature, the more I stand amazed at the work of the Creator. Into his tiniest creatures, God has placed extraordinary properties ...”  
Louis Pasteur (1822-1895)



# ***Sir Isaac Newton*** (1642-1727)

“...one of the greatest names in the history of human thought”





# Sir Isaac Newton Contributions





# *Sir Isaac Newton Contributions*

**Newton (mks unit for force)**

**Newton's Three Laws of Motion**

**Newton's rings**

**Newton Optimization**

**Newtonian Physics**

**Newtonian Fluid**

**Newton Raphson Method**

**Newtonian telescope**

**Newtonian dynamics**

**Newtonian constant of gravitation =**

**$6.672\ 59 \times 10^{-11}\ \text{m}^3\ \text{kg}^{-1}\ \text{s}^{-2}$**

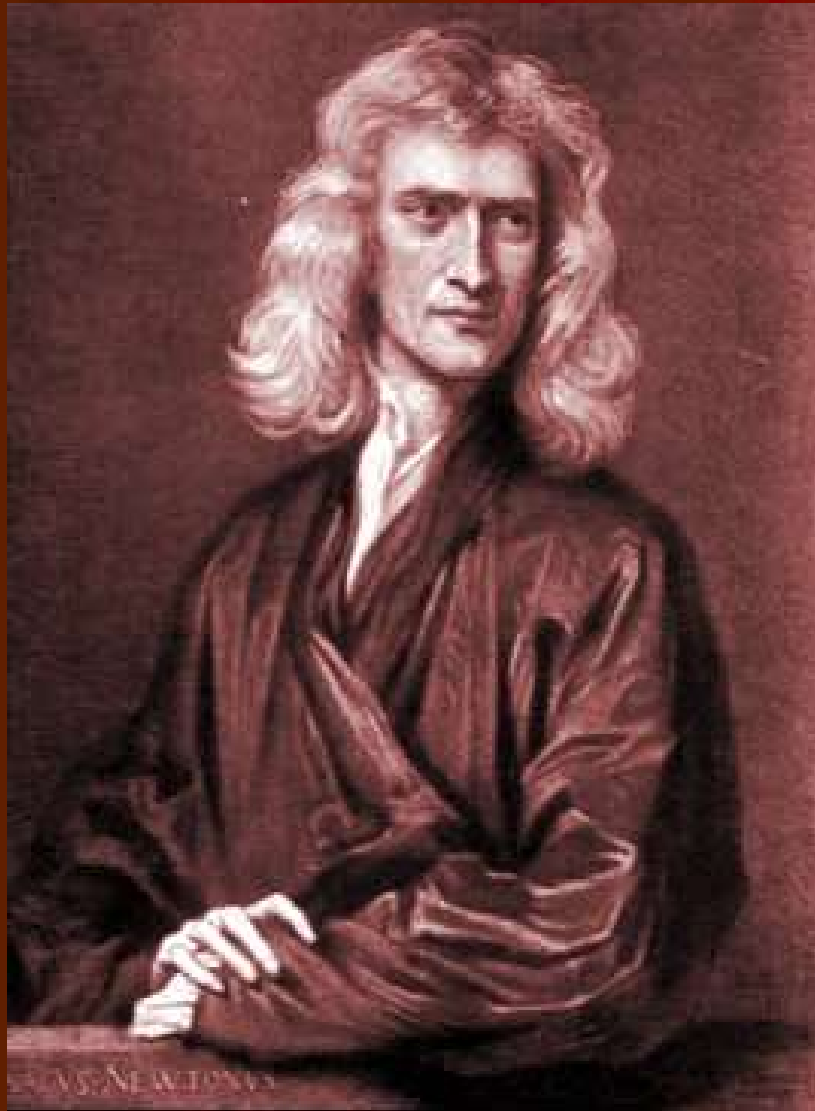
# God observed in nature...

**"[The] beautiful system of  
the the sun, planets and  
comets could only  
proceed from the  
council and dominion of  
an intelligent and  
powerful Being."**

**Isaac Newton**



# From *Opticks* by Isaac Newton



“God in the beginning formed matter in solid, massy, hard, impenetrable, moveable particles, of such sizes and figures, and with other such properties, and in such proportion to space, as most conduced to the end for which He formed them.”

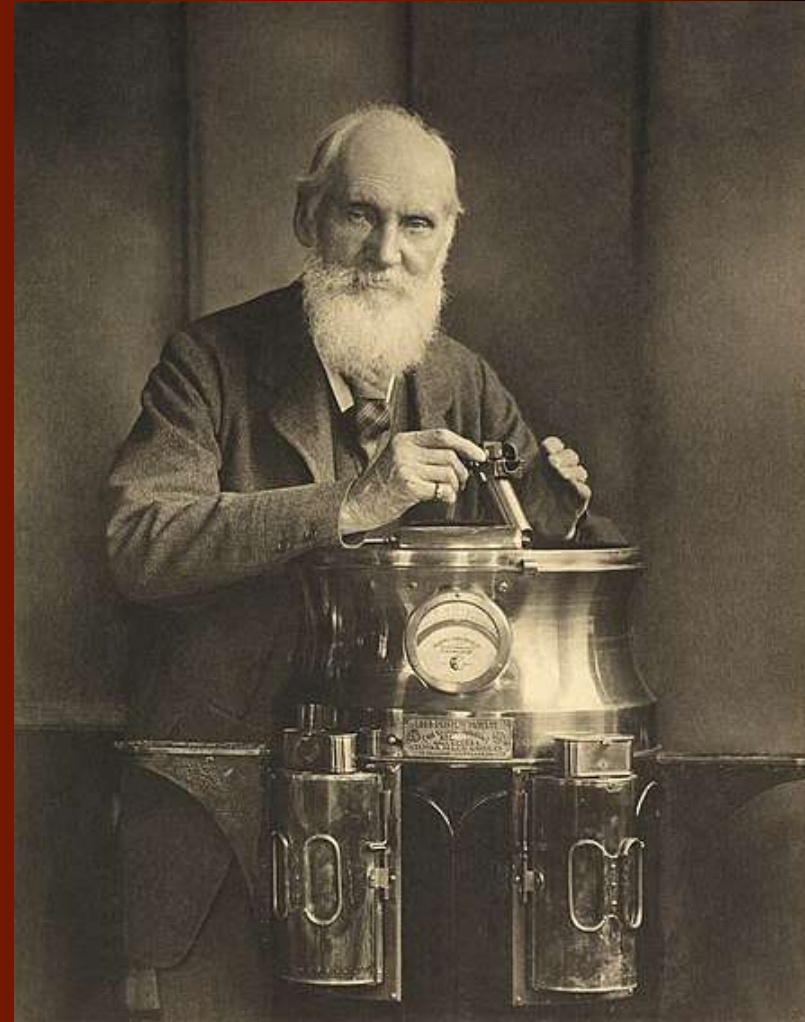


# Newton on Atheism

**“Atheism is so senseless and odious to mankind that it never had many professors.”**

“The atheistic  
idea is so  
nonsensical that I  
cannot put it into  
words.”

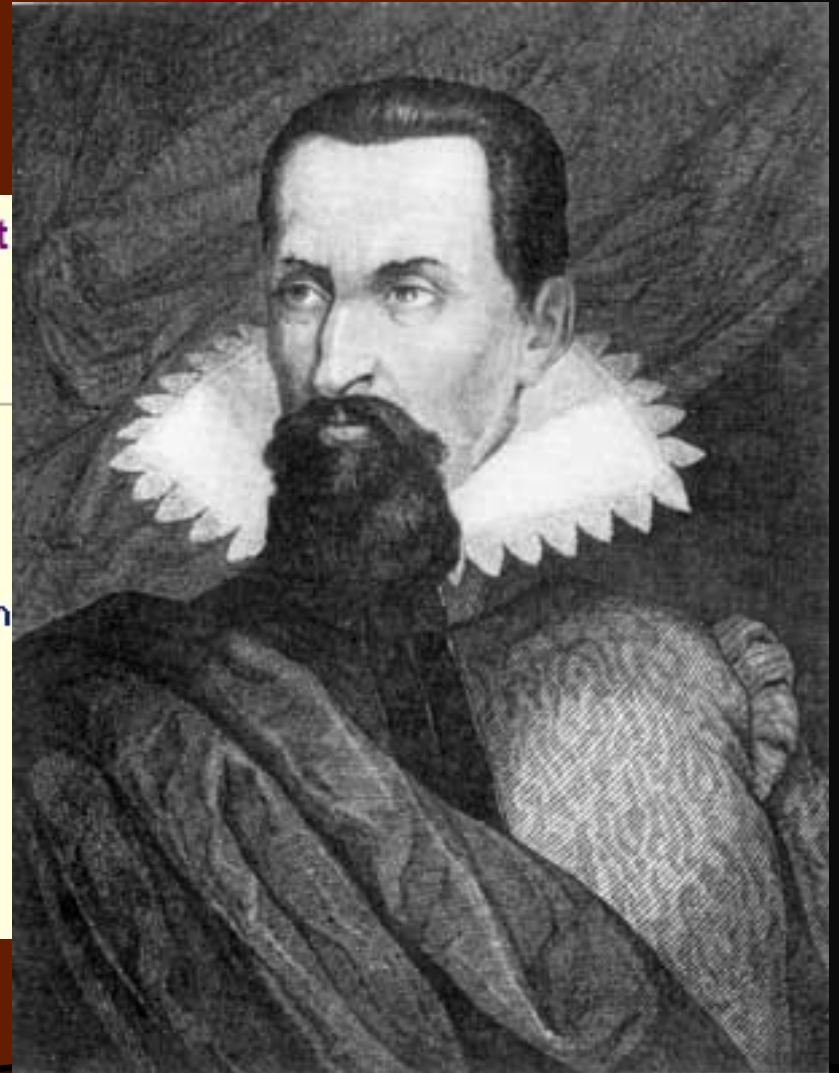
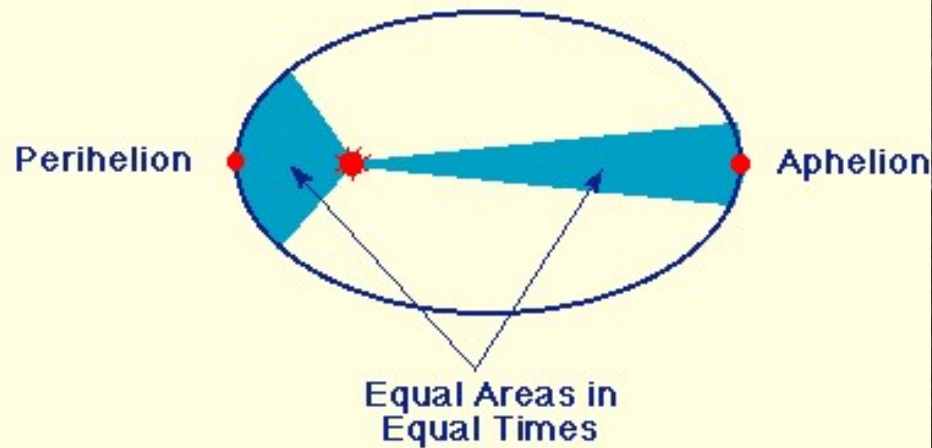
Lord Kelvin



# Johannes Kepler (1571-1630)

- Kepler's Laws

II. The line joining the planet to the Sun sweeps out equal areas in equal times as the planet travels around the ellipse.





## Johannes Kepler

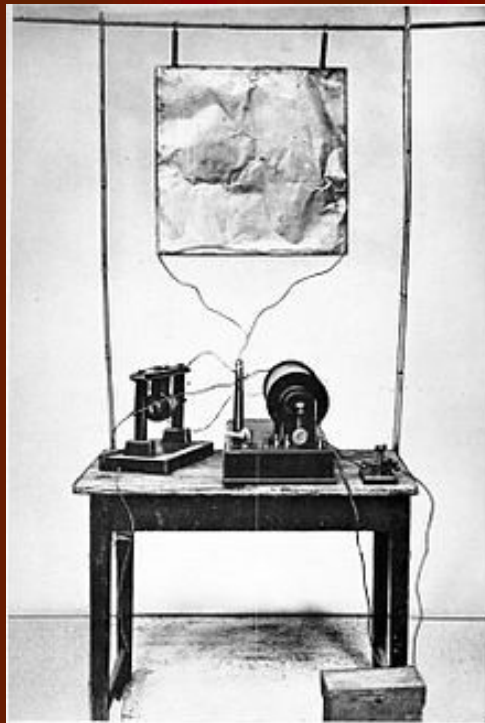


- When asked: "Why do you do science?", Kepler answered that he desired in his scientific research to obtain a sample test of the delight of the Divine Creator in his work and to partake of his joy."

# Guglielmo Marconi

(1874 – 1937)

inventor of radio  
Nobel Prize in Physics



# Guglielmo Marconi

“The more I work with the powers of Nature, the more I feel God's benevolence to man; the closer I am to the great truth that everything is dependent on the Eternal Creator and Sustainer”



# Michael Faraday (1791-1867)



$$\oint \mathbf{E} \cdot d\mathbf{r} = -\frac{d}{dt} \iint_S \mathbf{B} \cdot d\mathbf{A}$$

$$\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$$

$$F = N_A e$$





“...enabling the mind to apply the natural power through law... conveys the gifts of God to man.”

# George Washington Carver

“God is going to to reveal to us things He never revealed before if we put our hands in His.”

Named his research lab *God's Little Workshop*.



# Thomas Bayes (1702 – 1761)

## Bayes Theorem

$$P[A | B] = \frac{P[B | A]P[A]}{P[B]}$$





# James Clerk Maxwell (1831 –1879)





# James Clerk Maxwell

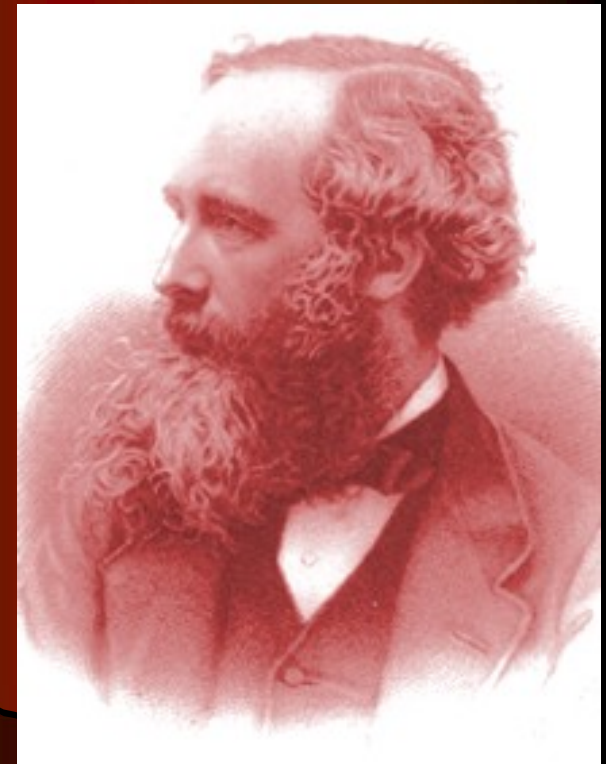
$$\nabla \cdot \vec{D} = \rho$$

$$\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$$

$$\nabla \cdot \vec{B} = 0$$

$$\nabla \times \vec{H} = \vec{J} + \frac{\partial \vec{D}}{\partial t}$$

## Maxwell's Equations



# James Clerk Maxwell

“The only desire which I can ...have is, like David, to serve my own generation by the will of God, and then fall asleep.” Maxwell (near death).



“I believe ... that ‘Man's chief end is to glorify God and to enjoy Him for ever’.”

# Blaise Pascal

(1623-62)



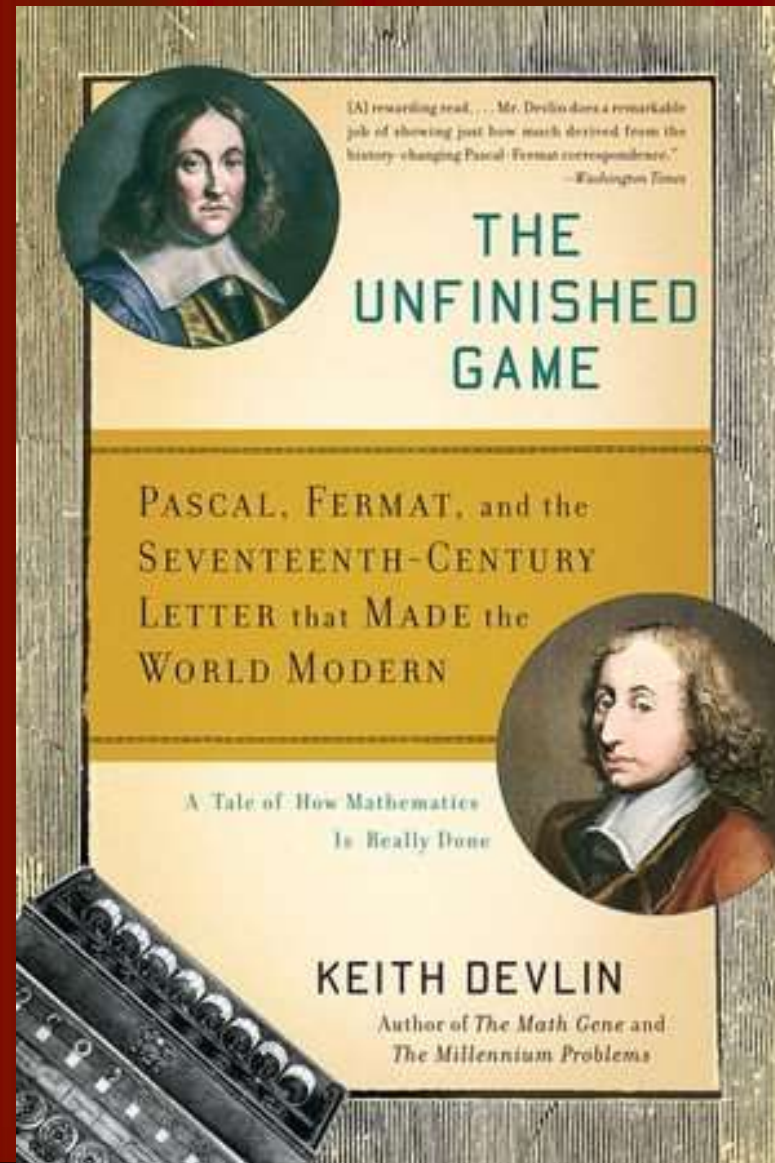
# *Pascal's Triangle*

			1	1						
1			1	2	1					
2			1	3	3	1				
3			1	4	6	4	1			
4			1	5	10	10	5	1		
5			1	6	15	20	15	6	1	
6			1	7	21	35	35	21	7	1
7			1	7	21	35	35	21	7	1
...			...							





# Probability



# Pascaline Calculator



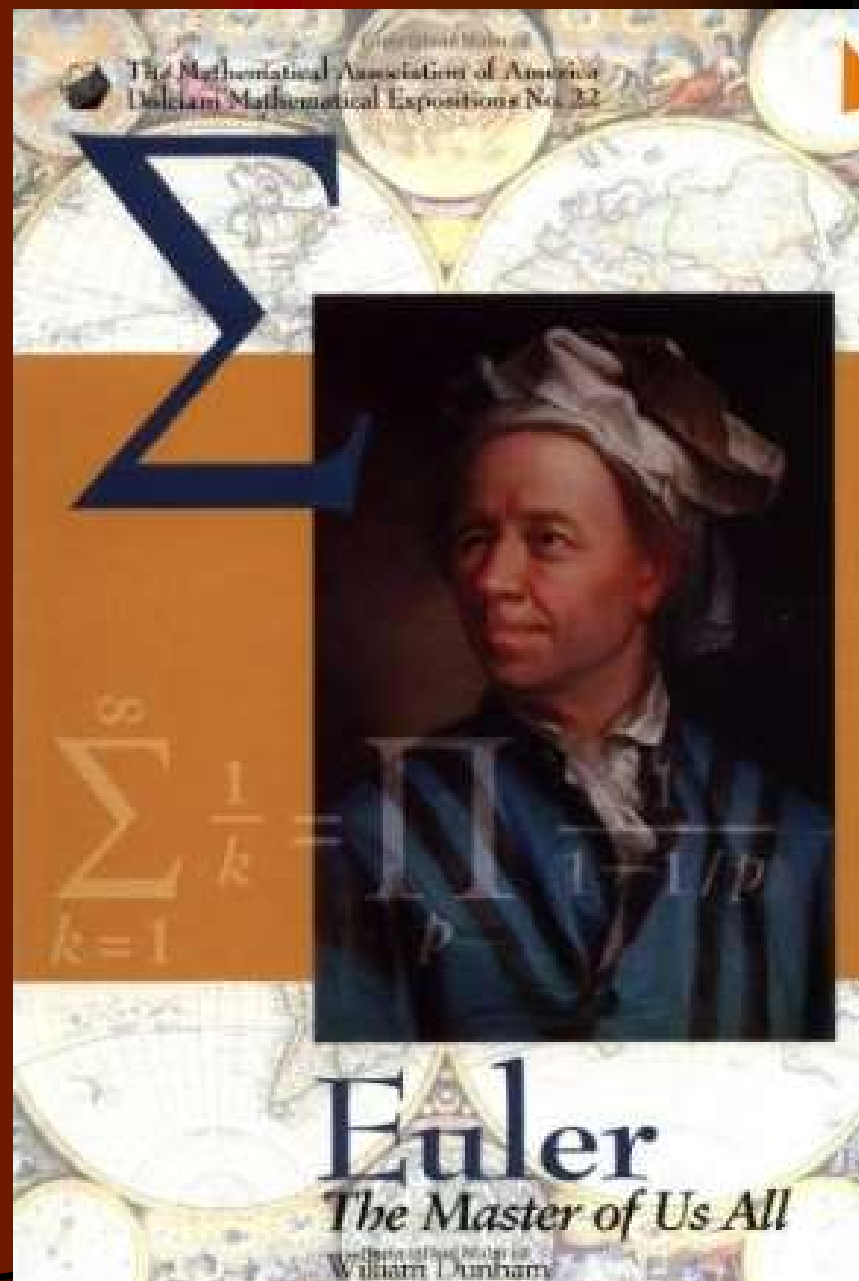
# Leonhard Euler

$$e^x$$

$$\cos(x) + j \sin(x) = e^{jx}$$



polyhedra:  $v - e + f = 2$



Euler angles defining a rotation in space.

Euler approximation

Euler brick

Euler characteristic in algebraic topology and topological graph theory, and the corresponding

Euler's formula

Euler circle

Eulerian circuit

Euler class

Euler's constant

Euler cycle

Euler's criterion

Euler derivative

Euler diagram

Euler's disk

Eulerian graph

Euler–Rodrigues parameters

The Euler integrals of the first and second kind, namely the beta function and gamma function.

Euler's line – relation between triangle centers

Euler–Mascheroni constant or Euler's constant  $\gamma \approx 0.577216$

Eulerian matroid

Euler's number,  $e$ , the base of the natural logarithm.

Euler operator – set of functions to create polygon meshes

Euler parameters

Eulerian path, a path through a graph that takes each edge once.

Euler polynomials

Euler pseudoprime



Euler's criterion

Euler derivative

Euler diagram

Euler's disk

Eulerian graph

The Euler integrals of the first and second kind, namely the beta function and gamma function.

Euler's line – relation between triangle centers

Euler–Mascheroni constant or Euler's constant  $\gamma \approx 0.577216$

Eulerian matroid

Euler's number,  $e$ , the base of the natural logarithm.

Euler operator – set of functions to create polygon meshes

Euler parameters

Euler angles defining a rotation in space.

Euler approximation

Euler brick

Euler characteristic in algebraic topology and topological graph theory, and the corresponding

Euler's formula

Euler circle

Eulerian circuit

Euler class

Euler's constant

Euler cycle

Eulerian path, a path through a graph that takes each edge once.

Euler polynomials

Euler pseudoprime

Euler–Rodrigues parameters

Euler's rule

Euler spline  
Euler squares  
Euler substitution  
Euler summation  
Euler system  
Euler's three-body problem  
Euler's sum of powers  
conjecture  
Euler equations (fluid dynamics)  
Euler's equations (rigid body  
dynamics)  
Euler–Bernoulli beam equation  
Euler–Cauchy equation  
Euler–Lagrange equation  
Euler–Lotka equation  
Euler–Poisson–Darboux  
equation  
Euler's pump and turbine  
equation  
Euler–Tricomi equation

Euler transform  
Euler's formula  $e^{ix} = \cos x + i \sin x$  in complex analysis.  
Euler's formula for planar  
graphs or polyhedra:  $v - e + f = 2$   
Euler's formula for the critical  
load of a column  
Euler's continued fraction  
formula  
Euler product formula – for the  
Riemann zeta function.  
Euler–Maclaurin formula  
(Euler's summation formula)  
Euler–Rodrigues formulas  
Euler's homogeneous function  
theorem  
Euler's totient function  
Euler hypergeometric integral  
Euler's identity  $e^{in} + 1 = 0$ .  
Euler's four-square identity

Euler's number,  $e \approx 2.71828$ ,  
Euler's idoneal numbers  
Euler numbers are an integer  
sequence.

Euler number (physics), the  
cavitation number in fluid  
dynamics.

Euler number (topology) – now,  
Euler characteristic

Euler–Mascheroni constant  
Eulerian integers are the  
numbers of form  $a+b\omega$  where  $\omega$  is  
a complex cube root of 1.

Euler's homogeneous function  
theorem

Euler's infinite tetration  
theorem

Euler's rotation theorem  
Euler's theorem (differential  
geometry)

Euler's theorem in geometry,  
relating the circumcircle and  
incircle of a triangle.

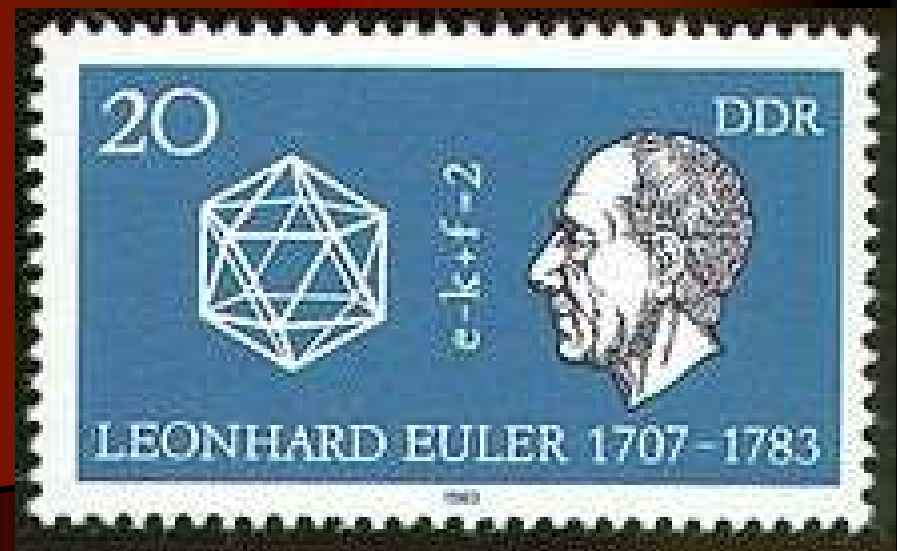
Euclid–Euler theorem

Euler–Fermat theorem

Euler's adding-up theorem in  
economics

Euler's first law about the linear  
momentum of a body

Euler's second law about the  
sum of the external moments  
about a point



# Leonhard Euler

“...the fabric of the universe is most perfect and the work of a most wise Creator”





Were all motivated by belief in

God?

Pierre Simon  
Laplace (1749-1827).

$$X(s) = \int_0^{\infty} x(t)e^{-st} dt$$



**Napoleon asked Laplace why God was not mentioned in any of his work on celestial mechanics. Laplace responded ...**

**“Sire, je n’avais pas besoin de cette hypothese.”**

**“Sire, I had no need of that hypothesis.”**

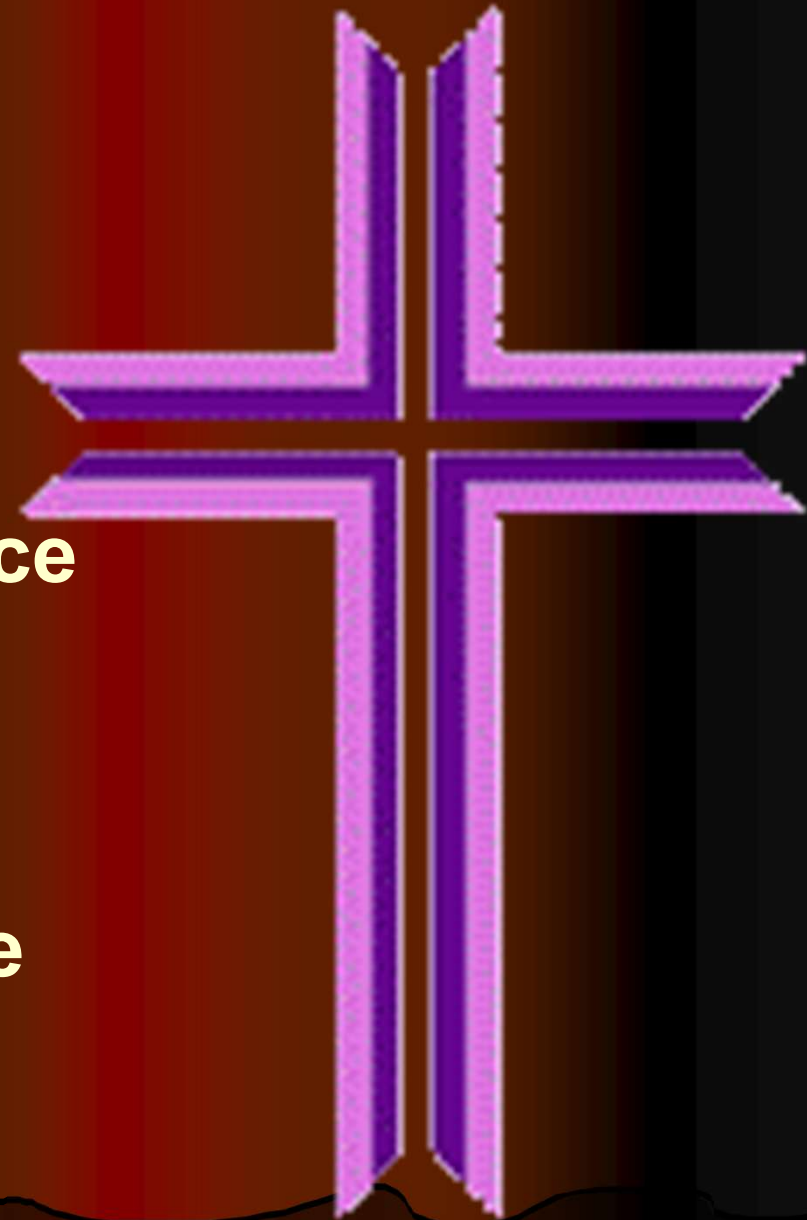


# Christian

## Christian:

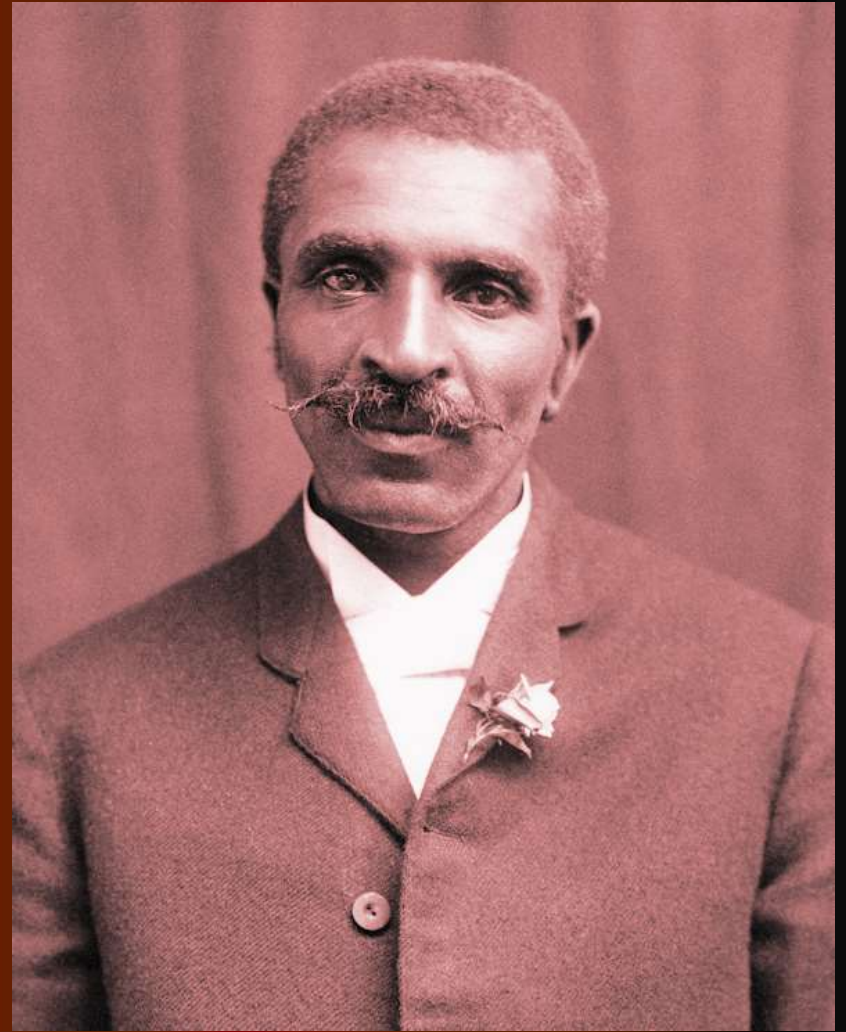
- Repent of sin.
- In need of a savior
- Accepting Christ's sacrifice for payment for sins
- Following Him

What were the belief of these theist scientist?



# George Washington Carver

“JESUS SAID ONE MUST  
BE BORN AGAIN,  
MUST BECOME AS A  
LITTLE CHILD. [YOU]  
MUST LET NO  
LAZINESS, NO FEAR,  
NO STUBBORNNESS  
KEEP [YOU] FROM  
[YOUR] DUTY.”



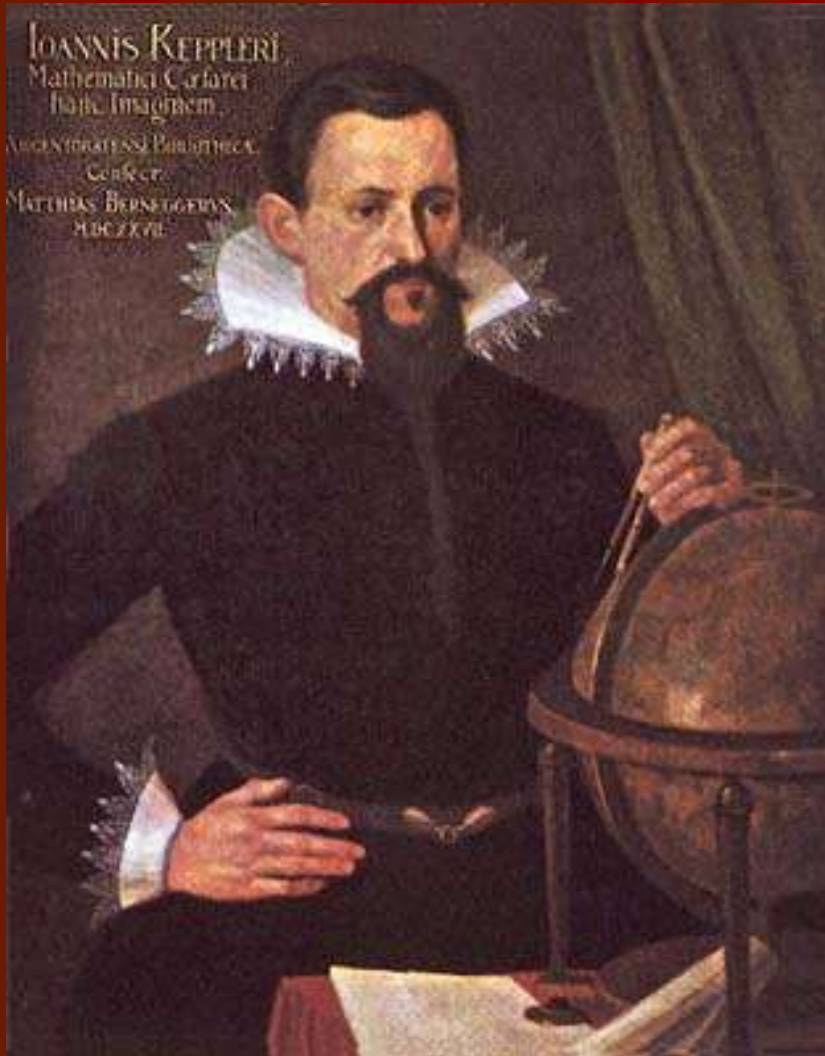


“There is one God, the  
Father, ever-living,  
omnipresent, omniscient,  
almighty, the Maker of  
heaven and earth, and  
one Mediator between  
God and man, the man  
Christ Jesus....”

**Sir Isaac Newton**



# Johannes Kepler



“I believe only and alone in the service of Jesus Christ. In Him is all refuge and solace.”

# Guglielmo Marconi

I am proud to be a Christian. I believe not only as a Christian, but as a scientist as well. A wireless device can deliver a message through the wilderness. In prayer the human spirit can send invisible waves to eternity, waves that achieve their goal in front of God.





**“[T]hough the thought of death brings the thought of judgment, it also brings to the Christian thought of Him [Jesus Christ] who died, ... [and] rose again for the justification of those who believe in Him.”  
Michael Faraday**

**“Speculations! I know nothing about speculations. I’m resting on certainties. ‘I know my Redeemer liveth’ and because He lives I shall also live.” purported to Faraday near death when queried by reporters about “speculations” of life after death.**




# ***James Clerk Maxwell***

**“Think what God has determined to do to all those who submit themselves to his righteousness and are willing to receive his gift [of eternal life in Jesus Christ]. They are to be conformed to the image of his Son and when that is fulfilled and God sees they are conformed to the image of Christ, there can be no more condemnation.”**

**James Clerk Maxwell.**



# Leonhard Euler



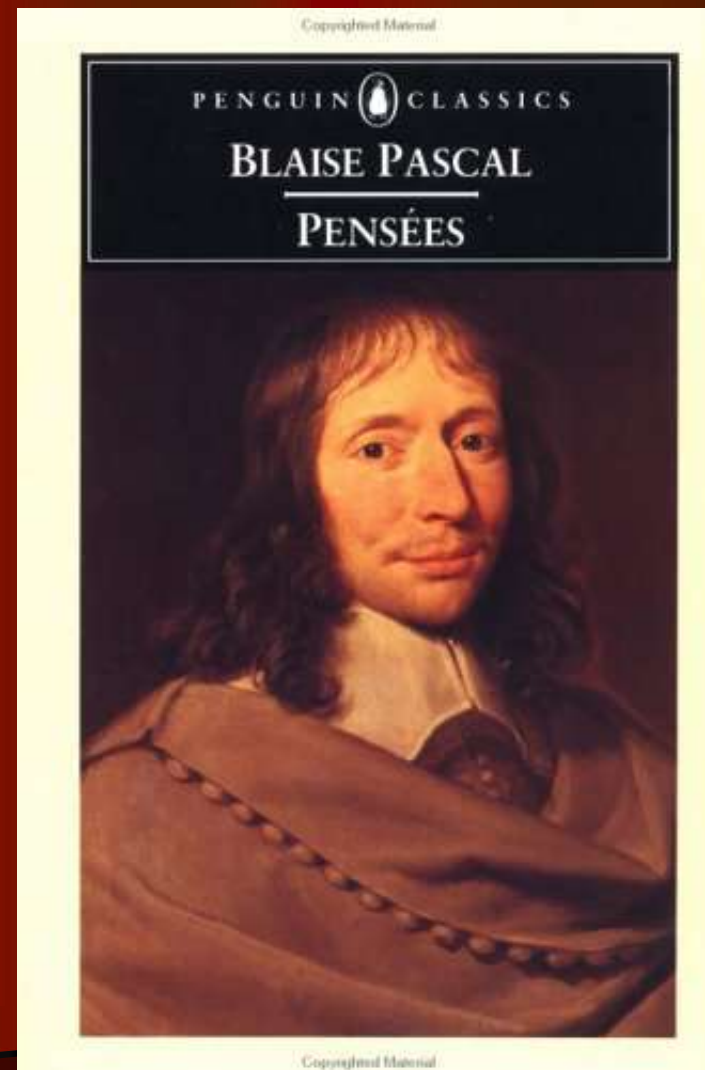
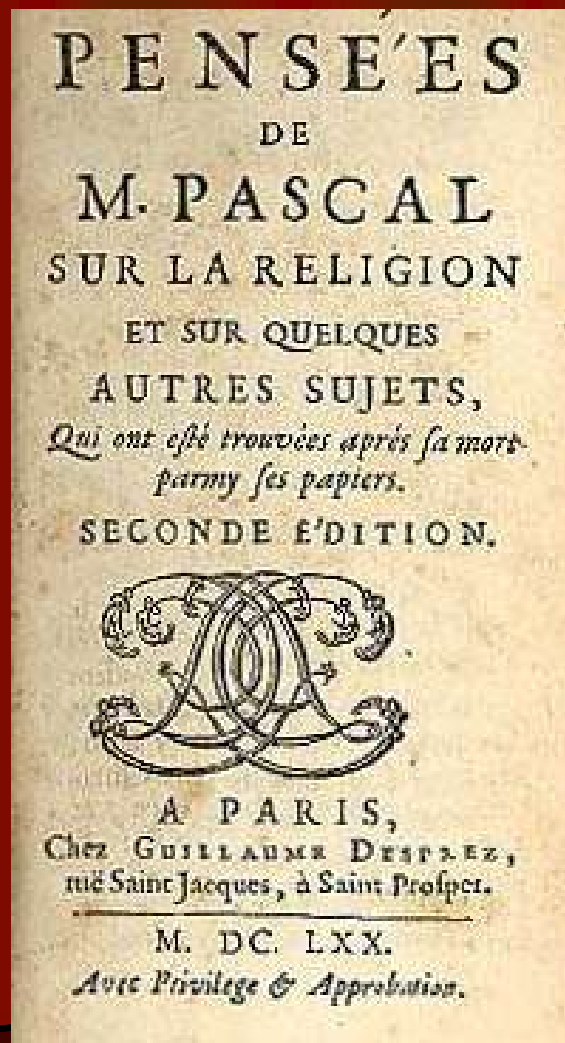
"THE DIVINITY OF CHRIST'S MISSION IN THIS WORLD CANNOT POSSIBLY BE CALLED INTO QUESTION." "[IT IS] AN ESTABLISHED TRUTH THAT CHRIST HAS RISEN FROM THE DEAD."  
"WE CAN ABSOLUTELY TRUST IN ALL THE PROMISES GIVEN IN THE GOSPEL."

**LEONHARD EULER**

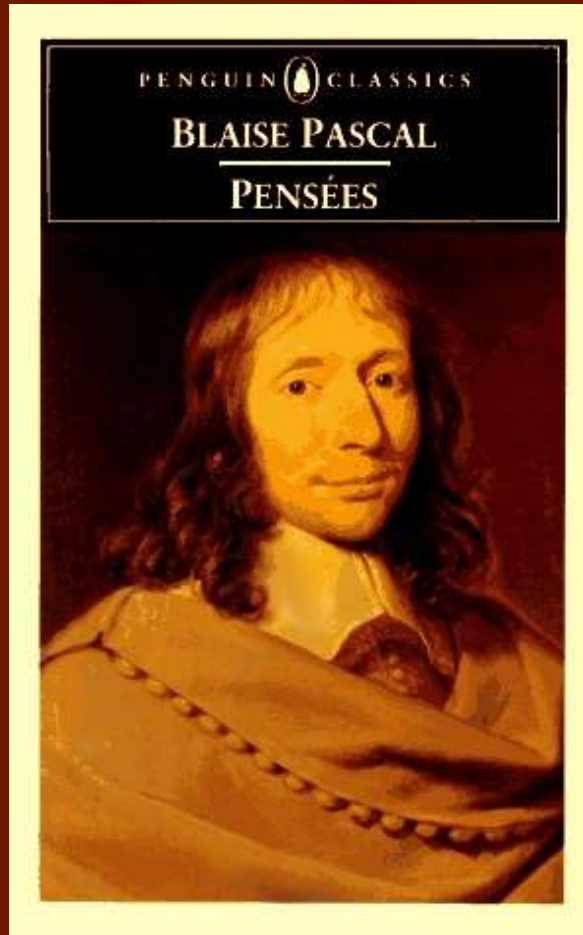
EULER'S NUMBER ( $e$  or  $e^x$ ), EULER'S IDENTITY, EULER'S FORMULA, EULER-LAGRANGE EQUATION, EULER-MASCHERONI CONSTANT, EULER'S TOTIENT FUNCTION, EULER-MACLAURIN FORMULA, EULERIAN PATH

1. "THE DIVINITY OF CHRIST'S MISSION IN THIS WORLD CANNOT POSSIBLY BE CALLED INTO QUESTION."
2. "[IT IS] AN ESTABLISHED TRUTH THAT CHRIST HAS RISEN FROM THE DEAD."
3. "WE CAN ABSOLUTELY TRUST IN ALL THE PROMISES GIVEN IN THE GOSPEL."

# Blaise Pascal



# Blaise Pascal



**“We know God only through Jesus Christ... through Jesus Christ we know God. All who have pretended to know God, and **prove** Him without Jesus Christ, have only had impotent proofs.”**

**“There is a God-shaped vacuum in the heart of every man, which only God can fill through His Son Jesus Christ.”**



# Pascal's Conversion

Pascal's conversion to Christianity. Found in the lining of his coat on his death

Monday, Nov 23,  
1654

"Memorial  
In the year of grace, 1654,  
On Monday, 23rd of November, Feast of St Clement,  
Pope and Martyr,  
And others in the Martyrology,  
Vigil of St Chrysogonus, Martyr, and others,  
From about half past ten in the evening until about  
half past Twelve,  
Fire!

God of Abraham, God of Isaac, God of Jacob, (Ex  
3:6; Mt 22:32)

Not of the philosophers and scholars.

Certitude. Certitude. Feeling. Joy. Peace.  
God of Jesus Christ.

"Thy God and my God." (Jn 20:17)

Forgetfulness of the world and of everything,  
except God.

He is to be found only in the ways taught in the  
Gospel.

Greatness of the Human Soul.

"Righteous Father, the world hath not known Thee,  
But I have known Thee." (Jn 17:25)

Joy, joy, joy, tears of joy.

I have separated myself from Him.

"They have forsaken Me, the fountain of living  
waters." (Jn 2:13)

"My God, wilt Thou leave me?" (Mt 27:46)

Let me not be separated from Him eternally.

"This is eternal life, That they might know Thee, the  
only true God, And Jesus Christ, whom Thou hast  
sent." (Jn 17:3) Jesus Christ...

Let me not be  
separated from  
Him eternally.  
"This is eternal  
life, That they  
might know  
Thee, the only  
true God, And  
Jesus Christ,  
whom Thou  
hast sent." (Jn  
17:3)

Joy, joy, joy,  
tears of joy.

Certitude.  
Certitude.  
Feeling. Joy.  
Peace.  
God of Jesus  
Christ.  
"Thy God and  
my God." (Jn  
20:17)  
Forgetfulness  
of the world and  
of everything,  
except God.

# Can Atheism be Debated?

Recall Peter Atkins



# Peter Atkins with William Lane Craig



# John Lennox



Christ is "the only solution that makes sense"



# John Sanford



"We are dying because of the fall. Our only hope is Christ"

Bringing the hope of Christ  
to the academy



MAKE A GIFT 

The  
**CHRISTIAN  
SCIENTIFIC  
SOCIETY**



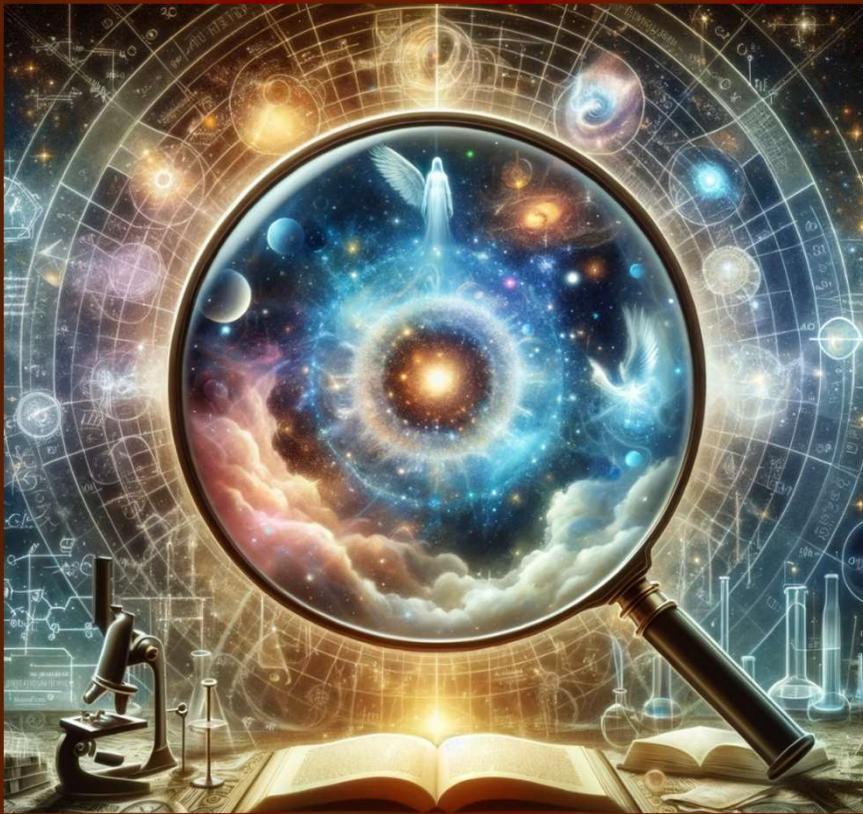
A NETWORK OF CHRISTIANS IN THE SCIENCES

Thanks to our generous donors, quite a few students received scholarships for ASA 2022!

# Welcome to The CSS

The Christian Scientific Society is a circle of professionals seeking to advance understanding in science as an aspect of living faithfully.

# Takeaways...



- Science and faith are not mutually exclusive. One illuminates the other.
- The battle is ideological – not scientific
- There is nothing new under the sun
- Science apologetics run deep.





[Home](#)[Collage](#)[Gallery](#)[People](#)[Contact](#)

# Christian Calculus.com

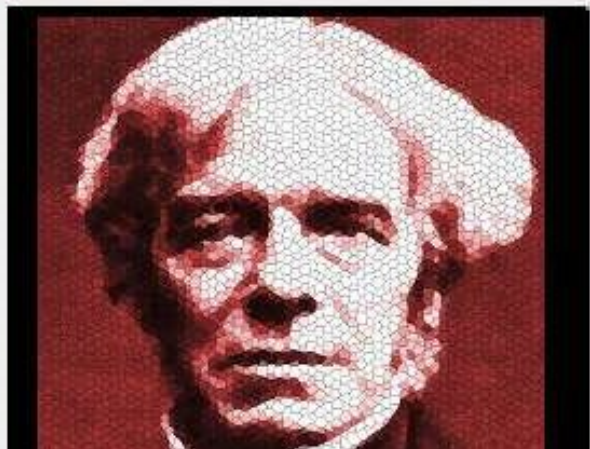
*we know what they did.  
here's what they believed.*

## What ?

Posters with quotes from famous scientists concerning their faith in God and Christ.

Larger copies of the posters can be downloaded in either MS Windows format (doc) or in pdf. The pdf is fine for printing the posters on regular sized paper. For larger printing, the doc file is best.

## Featured Scientist



### Michael Faraday

"[T]hough ... death brings the thought of judgment, it also brings to the Christian thought of Him [Jesus Christ]

## Christianity & Science

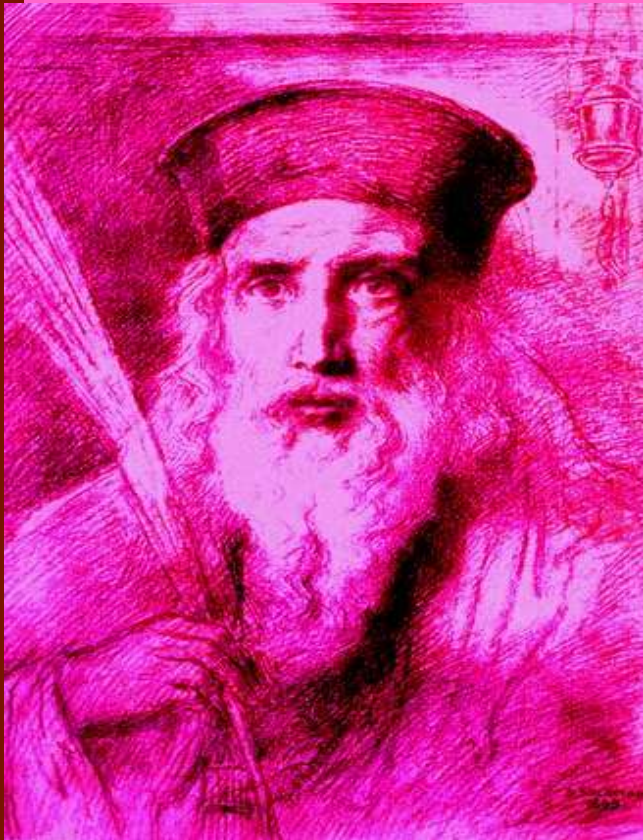
- [The Reverend Thomas Bayes](#)
- [Sir Isaac Newton](#)
- [Robert Boyle](#)
- [Johannes Kepler](#)
- [George Washington Carver](#)
- [Blaise Pascal](#)
- [Michael Farady](#)
- [Louis Pasteur](#)
- [Leonhard Euler](#)

## Other Resources

- [Scientists & Their God](#)
- [Scientists of the Christian Faith](#)



# Solomon's Sage Advice for Scholars...



11 The words of the wise are like goads, their collected sayings like firmly embedded nails-given by one Shepherd.

12 Be warned, my son, of anything in addition to them.

**12b. Of making many books there is no end, and much study wearies the body.**

**13. Now all has been heard; here is the conclusion of the matter: Fear God and keep his commandments, for this is the whole [duty] of man.**

**Ecclesiastes 12**

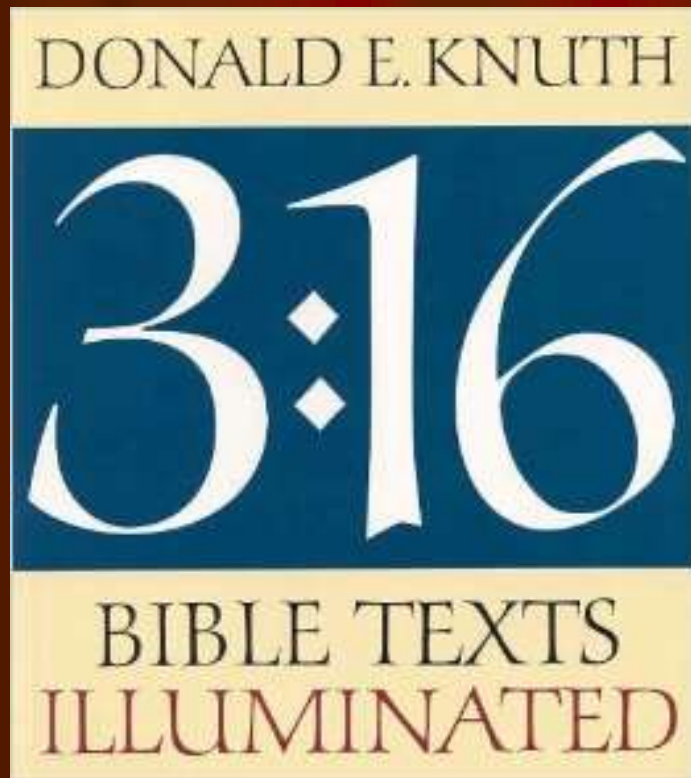
# Donald Knuth



- Computer Scientist Extraordinaire
- “The father computer science”
- Authored multi volume “The Art of Computer Programming”
- Knuth is the creator of the TeX computer typesetting system

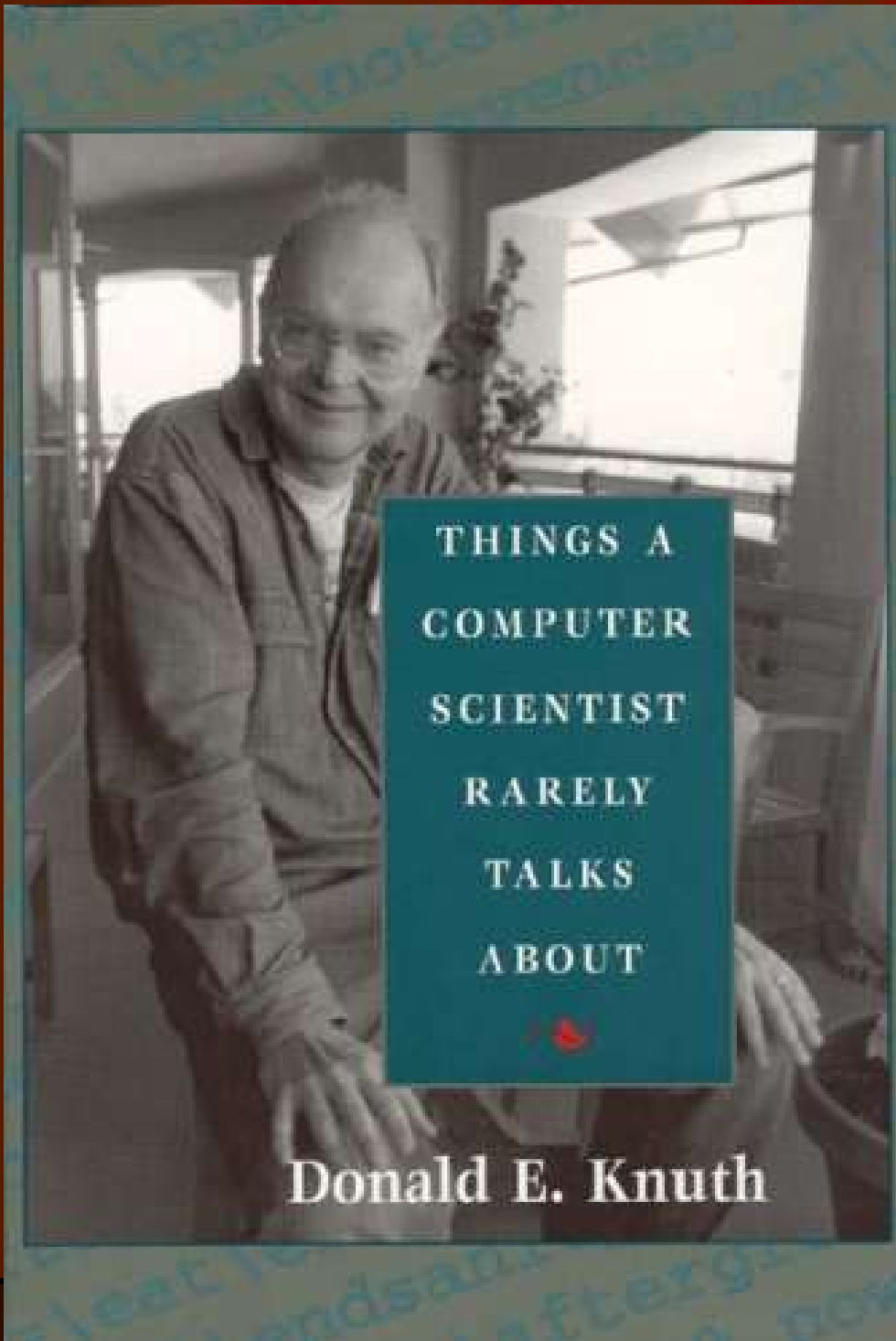


# Donald Knuth



- Knuth studied the Bible like he graded student's programming.
- "It's tragic that scientific advances have caused many people to imagine that they know it all, and that God is irrelevant or nonexistent. The fact is that everything we learn reveals more things that we do not understand... Reverence for God comes naturally if we are honest about how little we know."





# Donald Knuth

“Everyone who has faith – a personal trust that Jesus is God’s Son – has eternal life [and] lives forever”