

# Christian Calculus

Robert J. Marks II, Ph.D.

Distinguished Professor of Electrical & Computer Engineering

Baylor University

[Robert\\_Marks@Baylor.edu](mailto:Robert_Marks@Baylor.edu)

# The Impact of Christian Faith on Mathematics & Science: Yesterday & Today

Rogers 109 (Engineering Building), September 29, 5:30-7:00pm



## FREE PIZZA & DRINKS!

Dr. Robert J. Marks II, Distinguished Professor of Electrical and Computer Engineering

The New Atheism claims being a scientist and a Christian is like being a vegan butcher.

But both today and in history, many scientists, mathematicians and engineers are motivated in their work by the uncovering of the precise orderliness, underlying simplicity, and inherent beauty of God's creations. Many not only study the creation, but have pursued the identity of the Creator and have found Him in the foundational tenets of Christianity. Some of these scientists are:

- Isaac Newton - the father of classical physics and co-creator of calculus
- Michael Faraday - the founder of electrical engineering
- Blaise Pascal - mathematician extraordinaire and inventor of the first computer
- Leonhard Euler - the most prolific mathematician of all time
- George Washington Carver - the "father of the peanut"
- Louis Pasteur - the father of microbiology
- Thomas Bayes - the founder of statistical inference
- James Clerk Maxwell - the formulator of electromagnetics
- Francis Collins - Director of the Human Genome Project and on and on...



Marks is the recipient of numerous professional awards, including a NASA Tech Brief Award and a best paper award from the American Brachytherapy Society for prostate cancer research. He is Fellow of both IEEE and The Optical Society of America. His consulting activities include Microsoft Corporation, Pacific Gas & Electric, and Boeing Computer Services. His research has been funded by organizations such as the National Science Foundation, General Electric, Southern California Edison, EPRI, the Air Force Office of Scientific Research, the Office of Naval Research, the Whitaker Foundation, Boeing Defense, the National Institutes of Health, The Jet Propulsion Lab, Army Research Office, and NASA.

In 2010, Dr. Marks was listed by CollegeCrunch.com as one of "The 20 Most Brilliant Christian Professors," and, in 2013, one of "the 50 smartest people of faith" at TheBestSchools.org.



Sponsored by the American Scientific Affiliation (Baylor Student Chapter); the School of Engineering & Computer Science; the Departments of Electrical & Mechanical Engineering

# The Silent Purge



HOUSES OF WORSHIP

# A Campus Crusade Against the Constitution

Limiting First Amendment rights for Christians undercuts rights for everyone else.

 Email  Print  61 Comments



By HARVEY A. SILVERGLATE

Sept. 18, 2014 7:01 p.m. ET

In my lifetime I have been fortunate to see private associations within civil society promote astonishing social and political advancements in civil rights for African-Americans, women and gays. The voices of a like-minded minority, when allowed to associate and present a unified message, can be powerful. Yet we cannot pick and choose which groups have rights. Thus the current controversy surrounding evangelical Christian organizations on college campuses is a test of our commitment to liberal and constitutional ideals.

Earlier this month the California State University System "de-recognized" 23 campus chapters of the InterVarsity Christian Fellowship (IVCF). This decision stems from a December 2011 chancellor's executive order stating that "No campus shall recognize any . . . student organization unless its membership and leadership are open to all

[Home](#) [Story](#)

# Cal State University strips official status from InterVarsity Christian Fellowship

By Josh Dulaney

LA Daily News

POSTED: 09/26/2014 09:27:41 PM PDT

By Josh Dulaney, LA Daily News

After refusing to eliminate a requirement that leaders affirm a doctrine of faith, a Christian student organization has returned to Cal State University this fall without the financial help, recruitment opportunities and community standing other groups enjoy.

InterVarsity Christian Fellowship chose not to comply with a 2011 executive order signed by former Chancellor Charles B. Reed that prohibits CSU schools from recognizing any student group that denies membership and leadership to students based on a variety of factors, including religion. The well-known group, while welcome on campus, no longer has official club status in the 23-campus system.

While the organization — which opened its first chapter in 1947 in San Luis Obispo and lists CSU chapters at Pomona, Northridge, Los Angeles and Long Beach among others — is open to all students, its bylaws require chapter leaders to agree with the organization's doctrine.



Chante Shazel (center) joins other members of the CSULB InterVarsity Christian Fellowship in...

# Science and Faith: Separate But Equal? Answer...





LIBERTY

2008

S

# The New Atheists



Dawkins



Myers



Hitchens



Provine



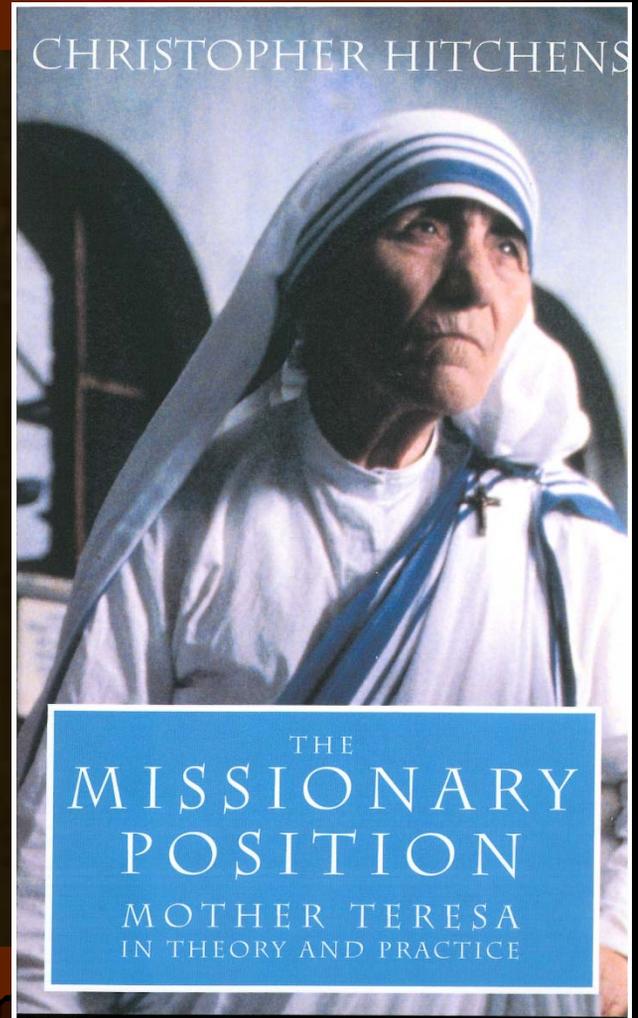
**"Christian theism must be rejected by any person with even a shred of respect for reason" George H. Smith, Atheist Philosopher**

# Peter Atkins



# Religion is Evil?

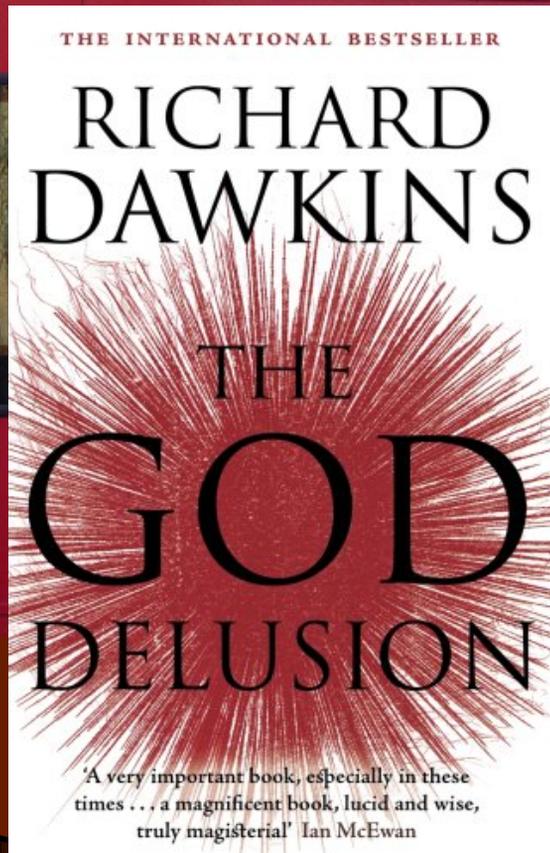
## Christopher Hitchens



# 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

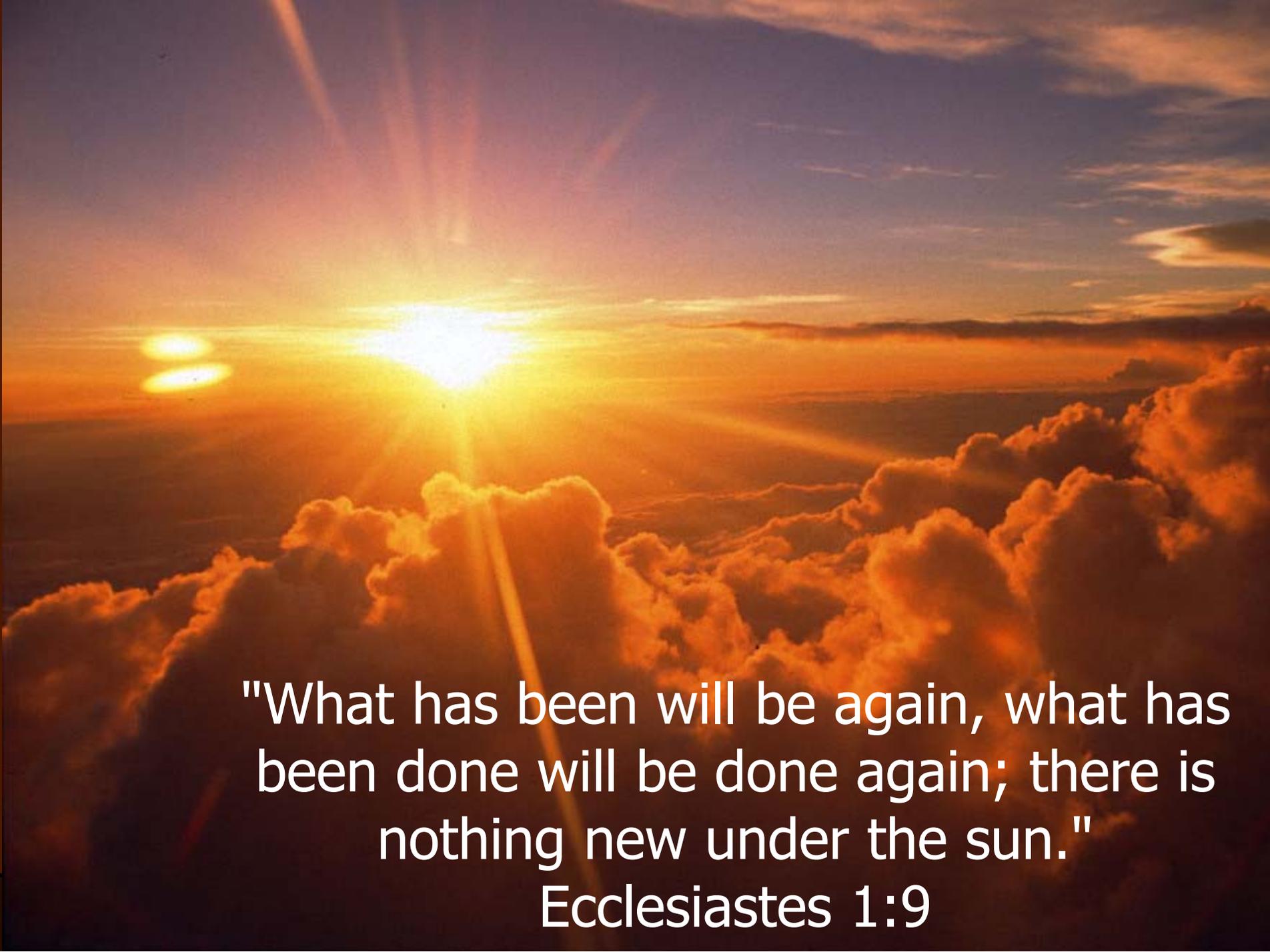


# P.Z. Myers

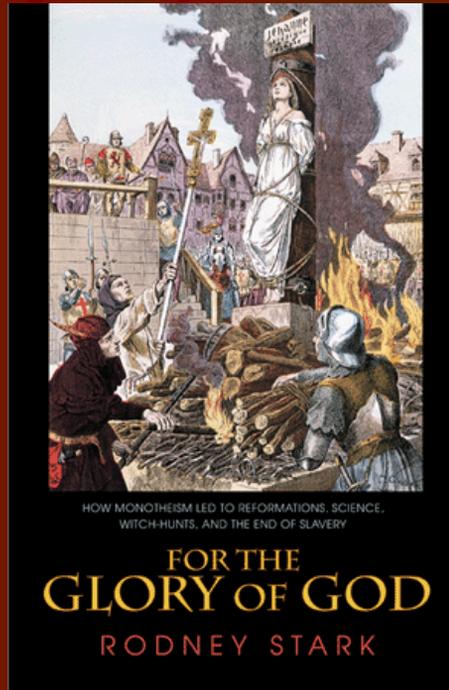


# William Provine





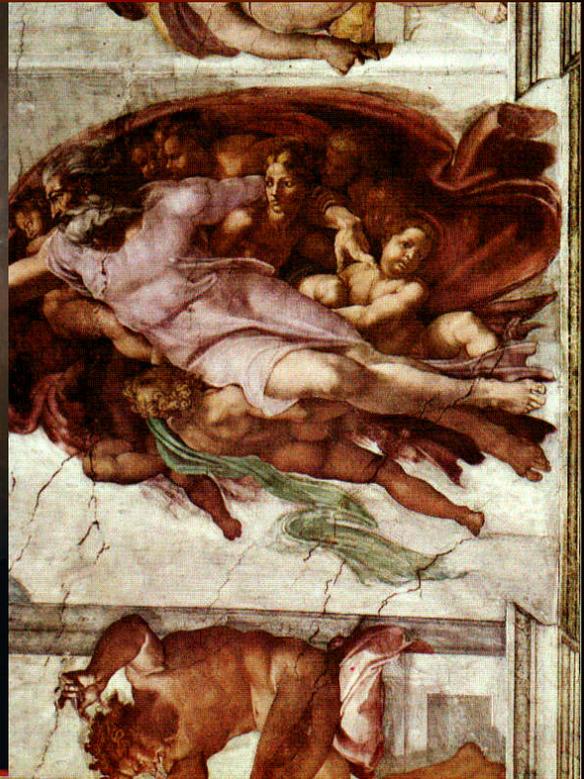
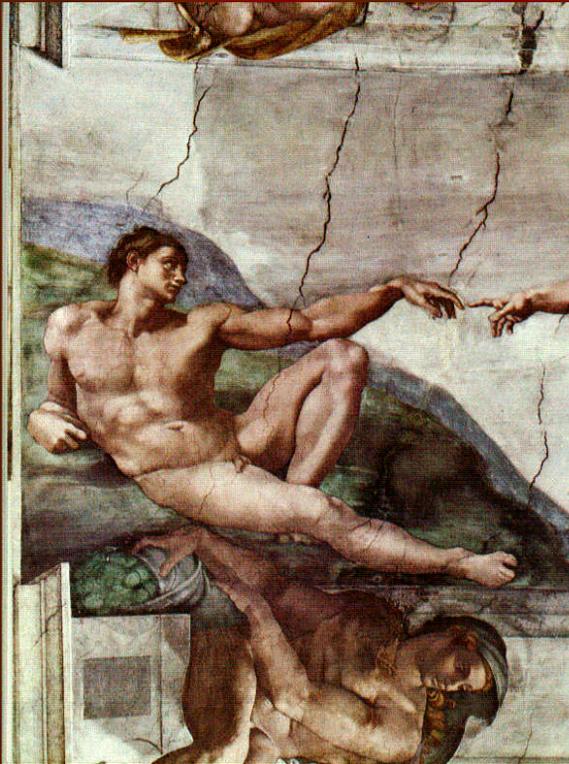
"What has been will be again, what has  
been done will be done again; there is  
nothing new under the sun."  
Ecclesiastes 1:9



# Rodney Stark

Nothing new under the sun: “The falsehood that science required the defeat of religion was proclaimed by such self-appointed cheerleaders as Voltaire, Diderot, and Gibbon who themselves played no part in the scientific enterprise - a pattern that continues.”

How does New Atheism position about science vs. faith stand up to history?



# ***HISTORY OF SCIENCE...***



***“... the Christian world ... gave birth in a clear, articulate fashion to the experimental method of science itself.”***

Loren Eiseley, “Darwin’s Century” (Garden City, NY, Doubleday, 1958, Doubleday Anchor Books, 1961), p.62.

# ***HISTORY OF SCIENCE***

**“... Hebrew and Christian belief in a deity who was at once a Creator and Law-giver rendered ... [the idea of the ‘laws of nature’] valid.”**

**• A.R. Hall, Historian**



HOW MONOTHEISM LED TO REFORMATIONS, SCIENCE,  
WITCH-HUNTS, AND THE END OF SLAVERY

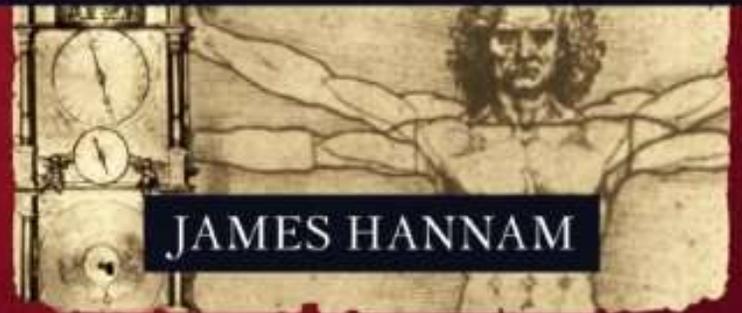
# FOR THE GLORY OF GOD

RODNEY STARK



# THE GENESIS OF SCIENCE

HOW THE CHRISTIAN MIDDLE AGES  
LAUNCHED THE SCIENTIFIC REVOLUTION



JAMES HANNAM

# Why Christians? In Science & Math, Researchers see God's Laws in Creation.



ROMANS 1:20 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, so that people are without excuse.



- “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)

# Biography's Top 100 Persons of the Millennium

1. Gutenberg, Johann
2. Newton, Isaac
3. Luther, Martin
4. Darwin, Charles
5. Shakespeare, William
6. Columbus, Christopher
7. Marx, Karl
8. Einstein, Albert
9. Copernicus, Nicolaus
10. Galileo Galilei
11. Da Vinci, Leonardo
12. Freud, Sigmund
13. Pasteur, Louis
14. Edison, Thomas
15. Jefferson, Thomas
16. Hitler, Adolf
17. Gandhi, Mahatma
18. Locke, John
19. Michelangelo
20. Smith, Adam
21. Washington, George
22. Khan, Genghis
23. Lincoln, Abraham
24. Aquinas, St Thomas
29. Ford, Henry
30. Beethoven, Ludwig Von
31. Watson & Crick
32. Descartes, Rene
33. King, Martin Luther Jr.
34. Rousseau, Jean-Jacques

## 2. Isaac Newton

The father of classical physics.  
Co-Discoverer of Calculus

## Blaise Pascal

The father of computer engineering

## 13. Louis Pasteur

The father of microbiology

## Thomas Bayes

The founder of statistical inference

## James Clerk Maxwell

The founder of electromagnetics

## 61. Michael Faraday

The father of electrical engineering

40. Wright Brothers

41. Gates, Bill  
42. Mendel, Gregor  
43. Mao, Zedong  
44. Bell, Alexander  
45. William the Conqueror  
46. Machiavelli, Niccolò  
47. Babbage, Charles

52. Churchill, Winston  
53. Curie, Marie  
54. Polo, Marco  
55. Magellan, Ferdinand  
56. Anton, Elizabeth  
57. Presley, Elvis  
58. Man of Arc  
59. Immanuel

60. Roosevelt, Franklin D.  
61. Faraday, Michael  
62. Disney, Walt  
63. Austen, Jane

68. Franklin, Benjamin

69. Harvey, William  
70. Pope Gregory VII  
71. Tubman, Harriet  
72. Bolivar, Simon  
73. Princess Diana  
74. Fermi, Enrico

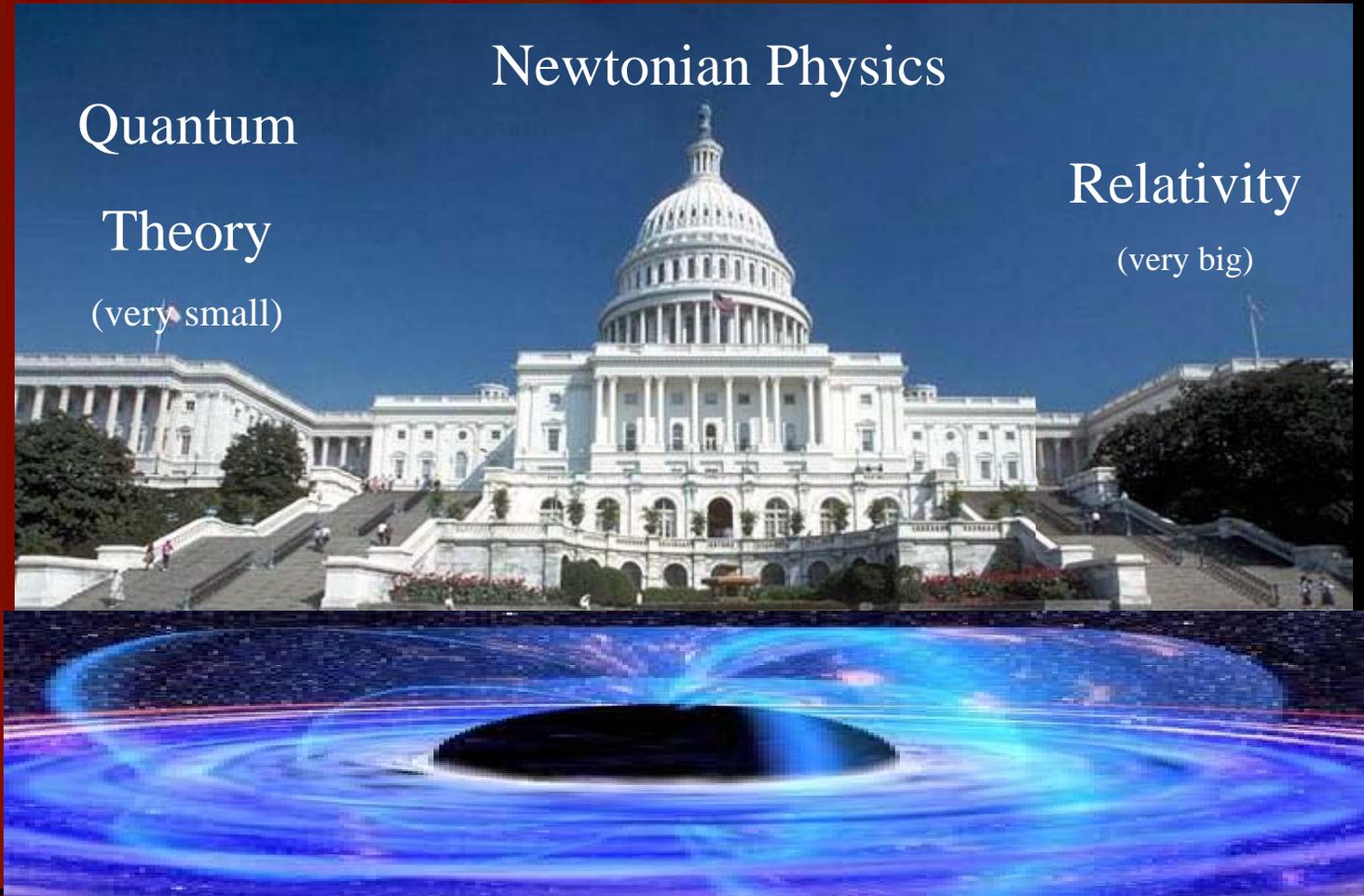
75. Stalin, Joseph  
80. Elizabeth I  
81. Mandela, Nelson  
82. Bohr, Niels  
83. Peter the Great of Russia  
84. Marconi, Guglielmo  
85. Reagan, Ronald  
86. Joyce, James

87. Spielberg, Steven  
92. Nightingale, Florence  
93. Roosevelt, Eleanor  
94. Patient Zero  
95. Chaplin, Charlie  
96. Caruso, Enrico  
97. Salk, Jonas

98. Louis  
Coco

# *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**

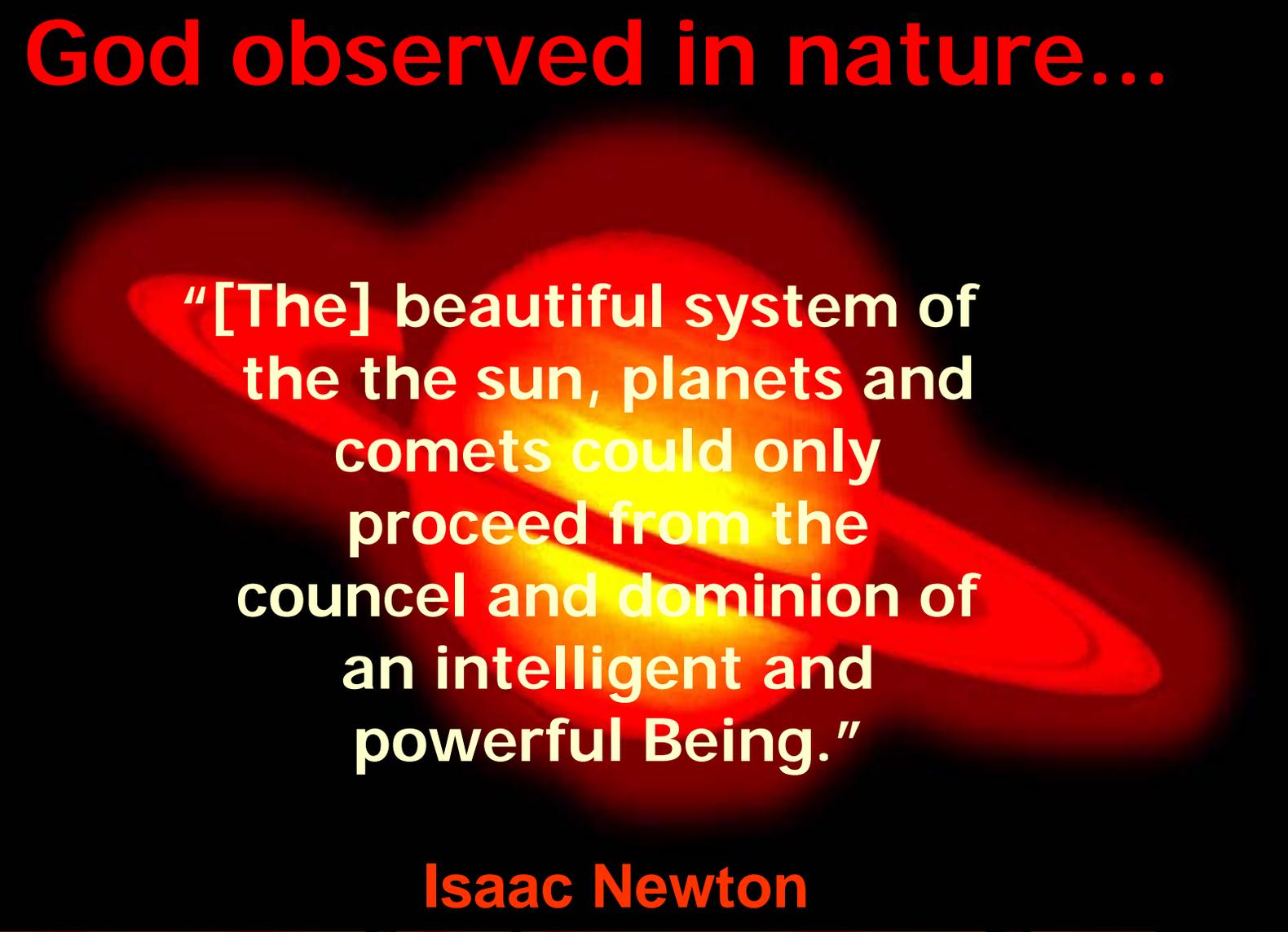
**Newtonian telescope**

**Newtonian dynamics**

**Newtonian constant of gravitation =**

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

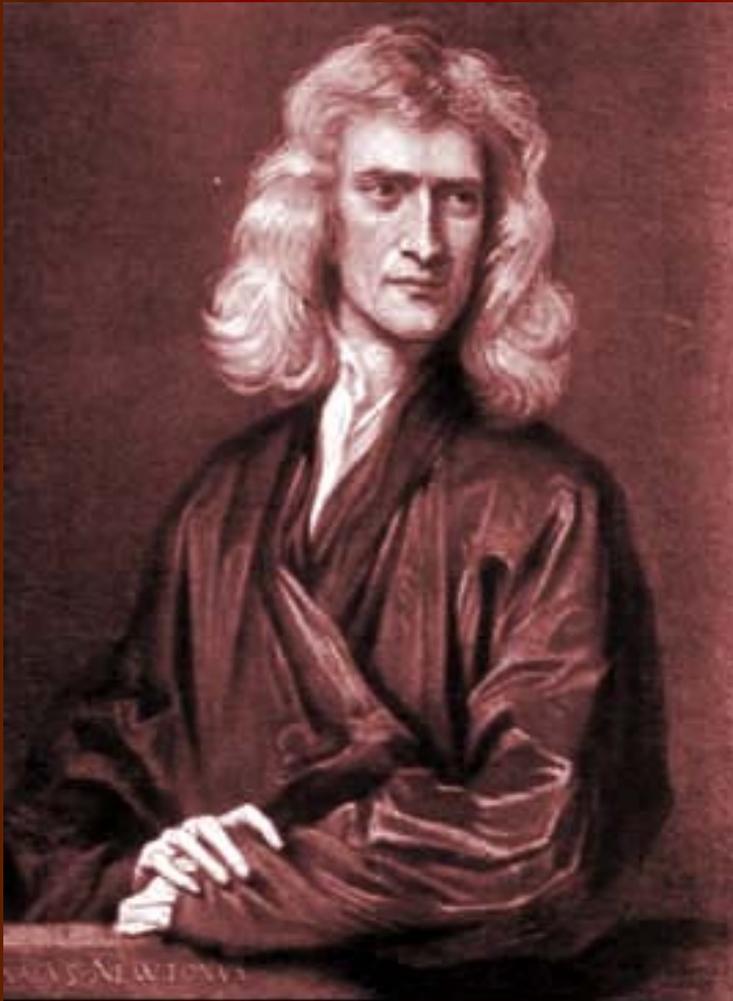
# God observed in nature...

A glowing red and yellow sun with a ringed planet in the background. The sun is bright yellow and orange, with a red ringed planet (resembling Saturn) in front of it. The background is dark with a red and orange glow.

“[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.”



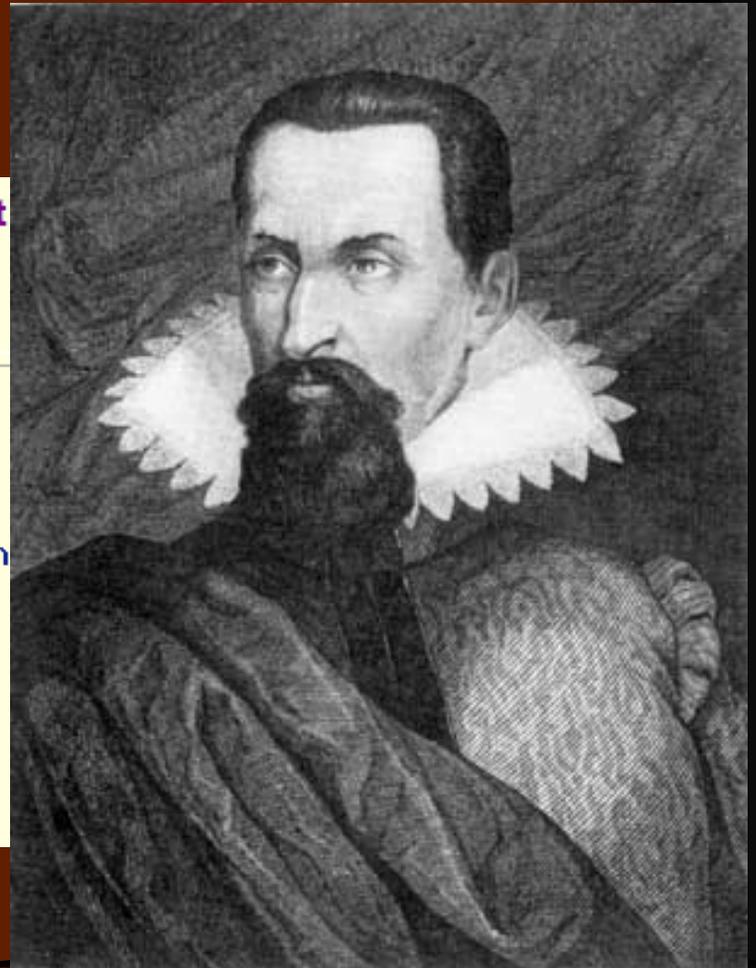
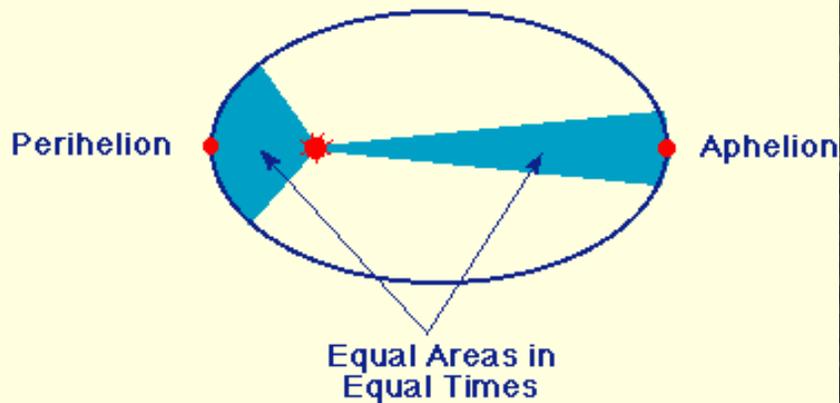
# Newton on Atheism

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

# 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 (1571-1630)



- Kepler's Laws

III. The ratio of the squares of the revolutionary periods for two planets is equal to the ratio of the cubes of their semimajor axes.

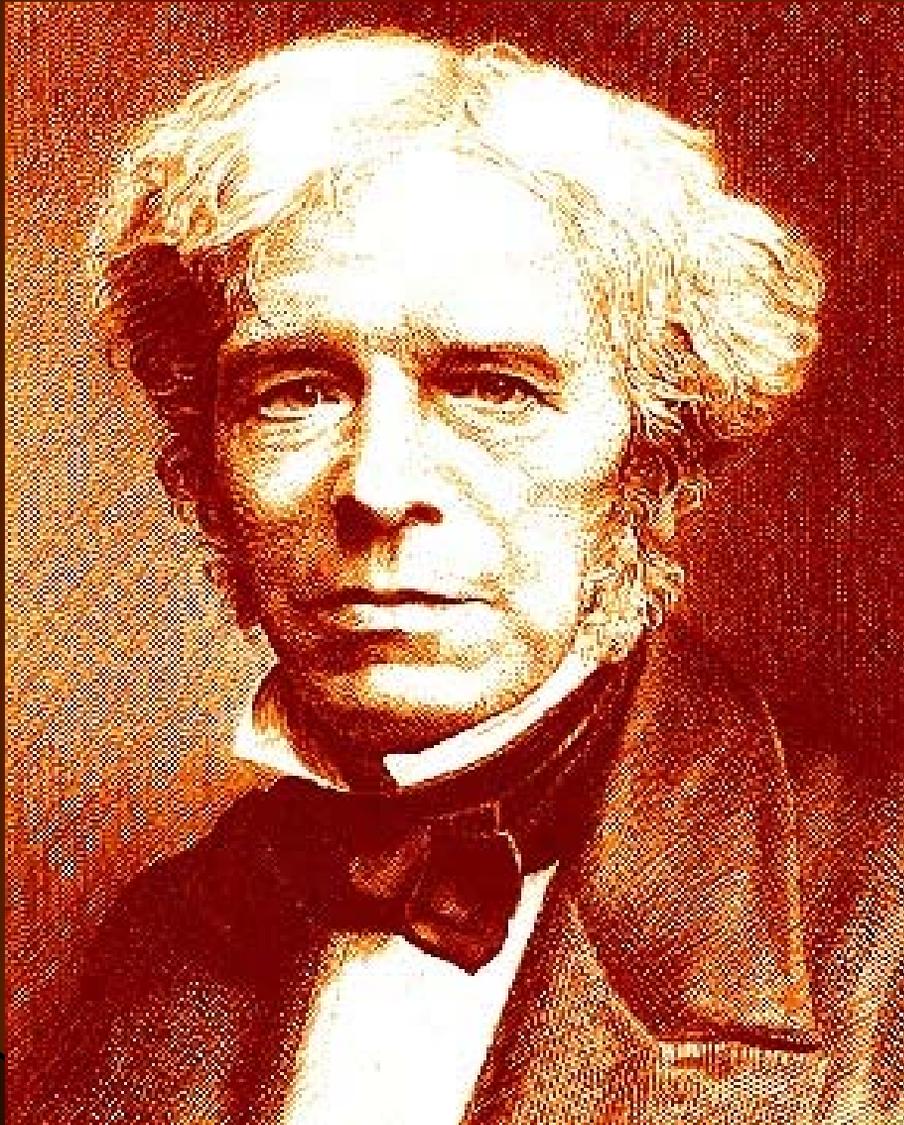
$$\frac{P_1^2}{P_2^2} = \frac{R_1^3}{R_2^3}$$

## 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."

# Michael Faraday (1791-1867)



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

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

$$F = N_A e$$

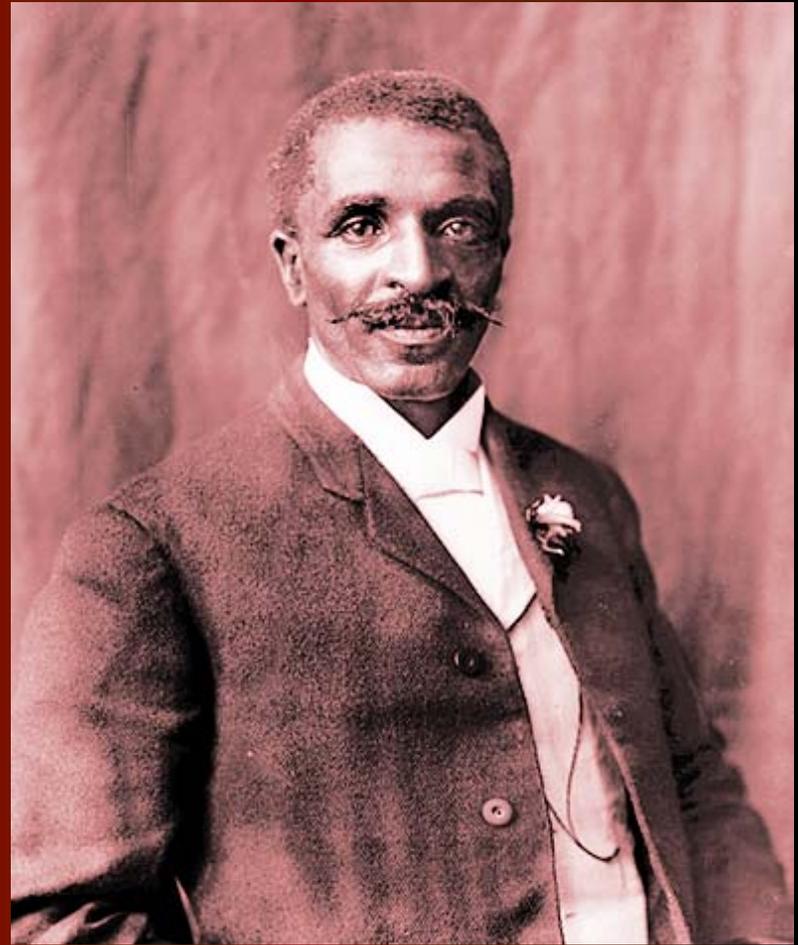


“...enabling the mind to apply the natural power through law... conveys the gifts of God to man.”

# 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*.

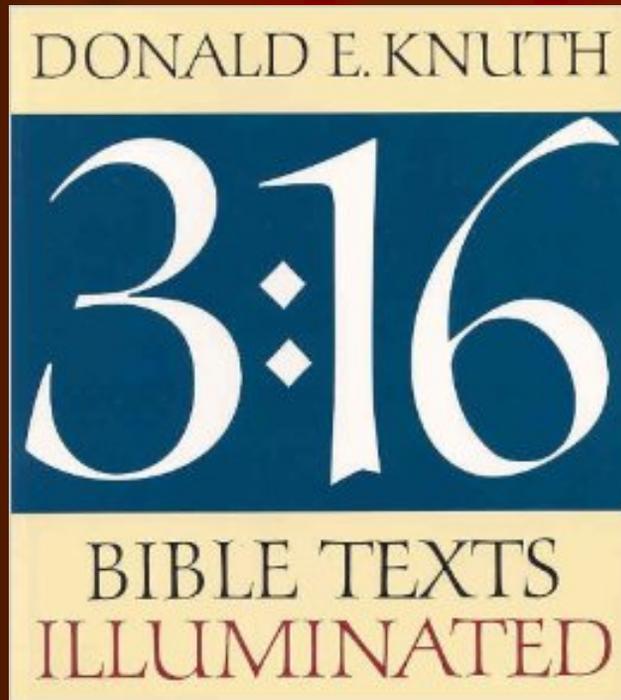


# Donald Knuth



- 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."

# 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

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

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

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

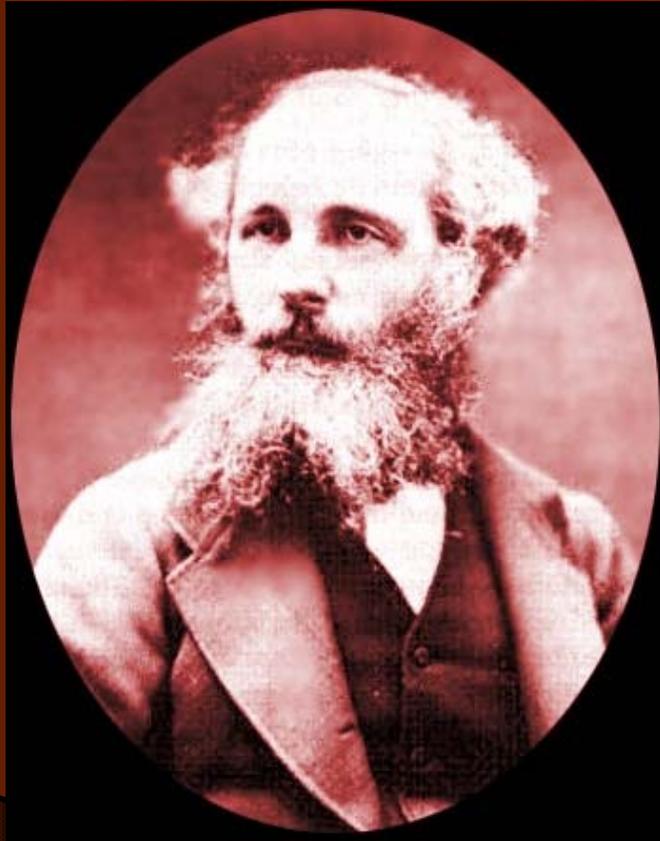
$$\nabla \times \vec{H} = \vec{J} + \frac{\partial \vec{D}}{\partial t}$$

## 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).



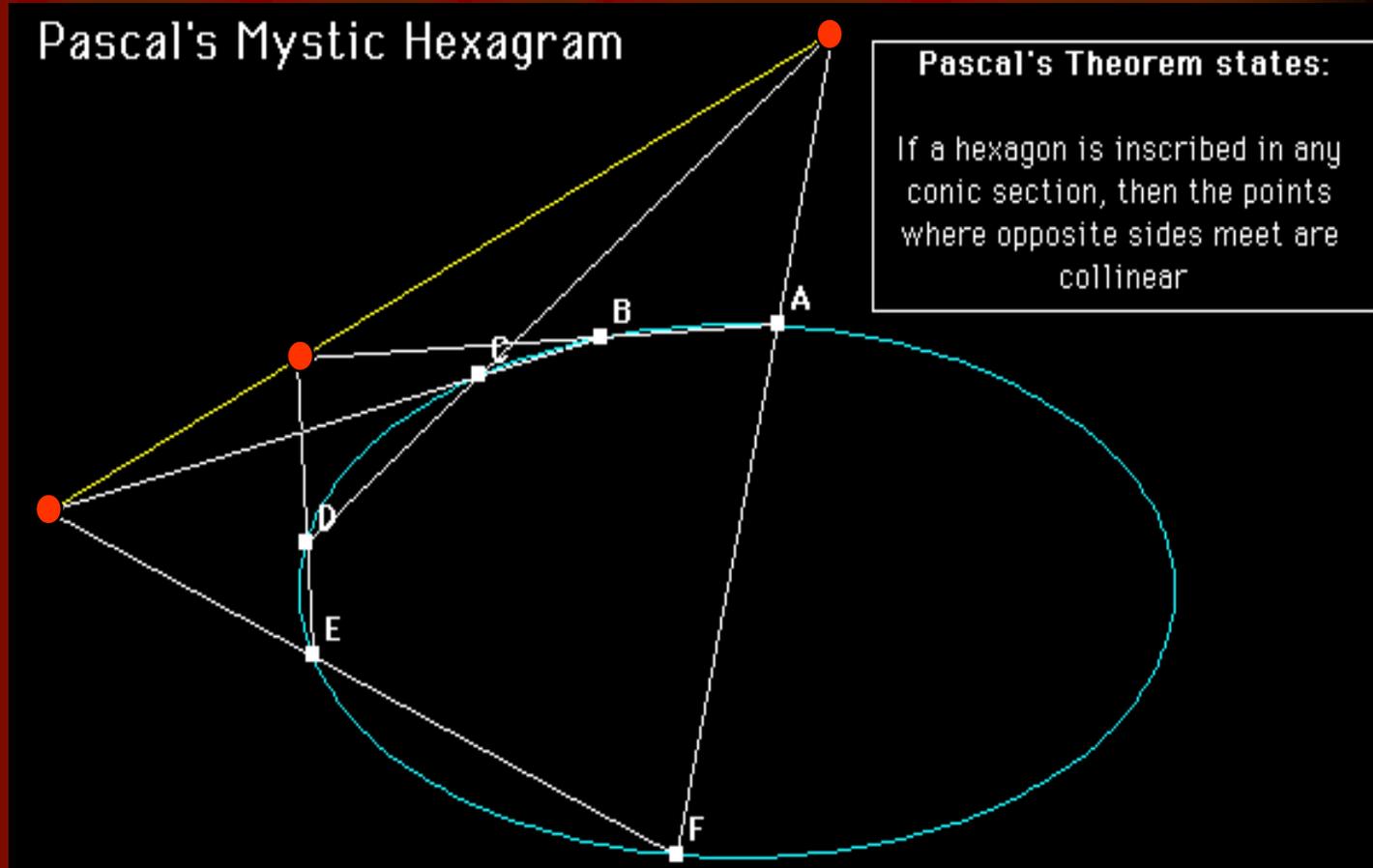
“I believe ... that ‘Man's chief end is to glorify God and to enjoy Him for ever’.”

# Blaise Pascal

(1623-62)



# Pascal: the Mathematician

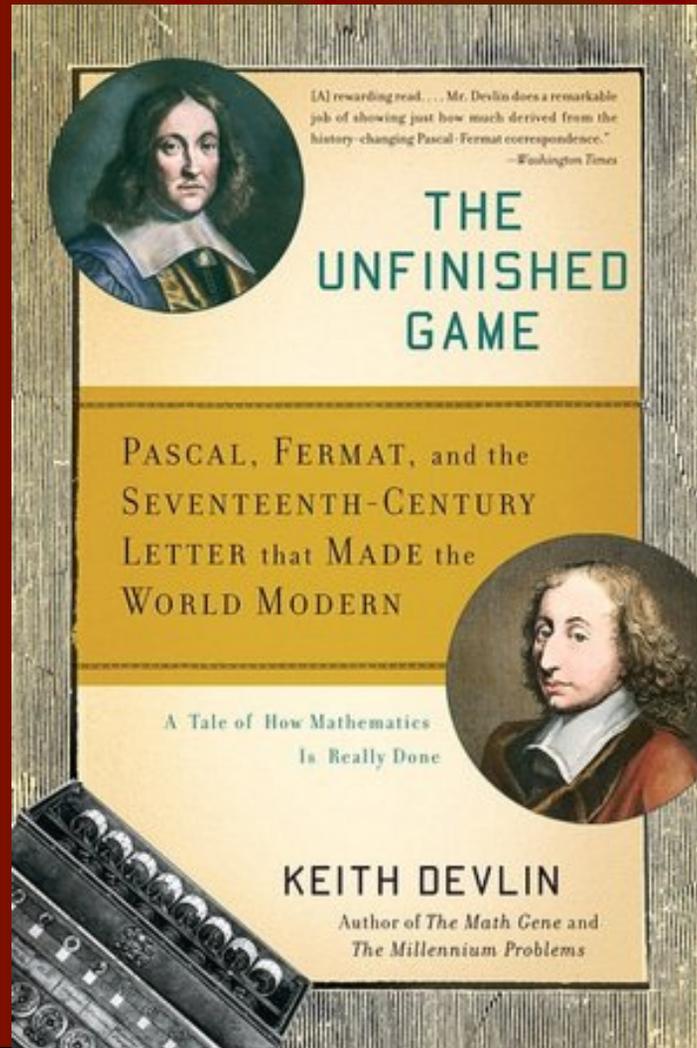


# *Pascal's Triangle*

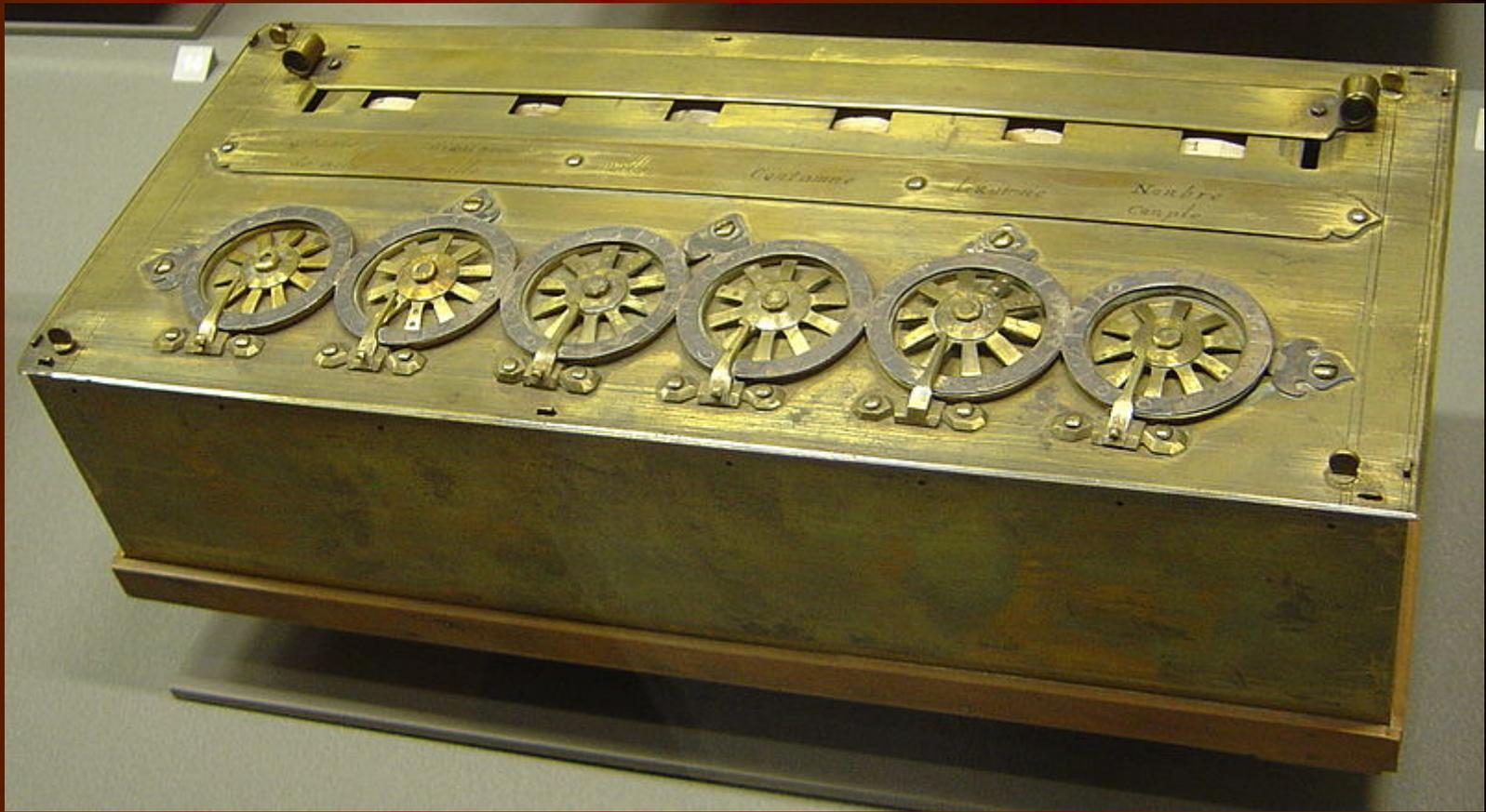
			1	1						
1			1	2	1					
2			1	3	3	1				
3			1	4	6	4	1			
4			1	5	10	10	5	1		
5			1	6	15	20	15	6	1	
6			1	7	21	35	35	21	7	1
7			1	7	21	35	35	21	7	1
...			...							



# Probability



# Pascaline Calculator



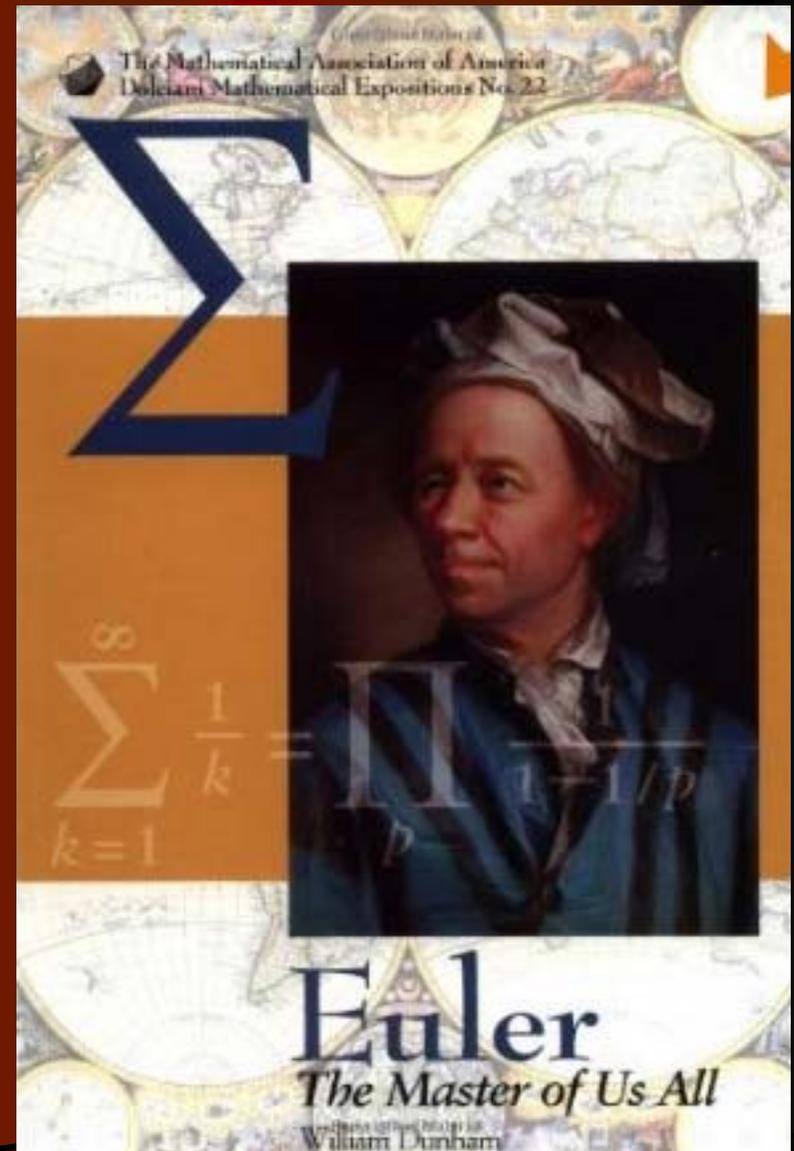
# Leonhard Euler

$$e^x$$

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



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

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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.

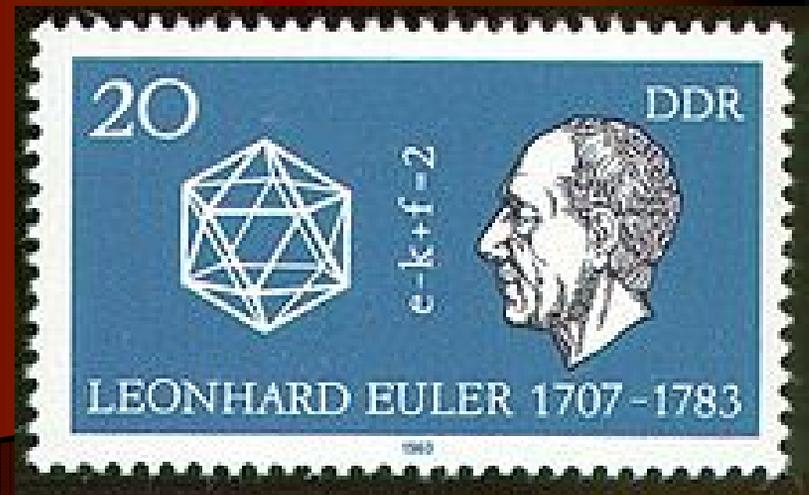
Euclid–Euler theorem

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

“For since the fabric of the universe is most perfect and the work of a most wise Creator, nothing at all takes place in the universe in which some rule of maximum or minimum does not appear.”



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.”**



# Theist ≠ Christian

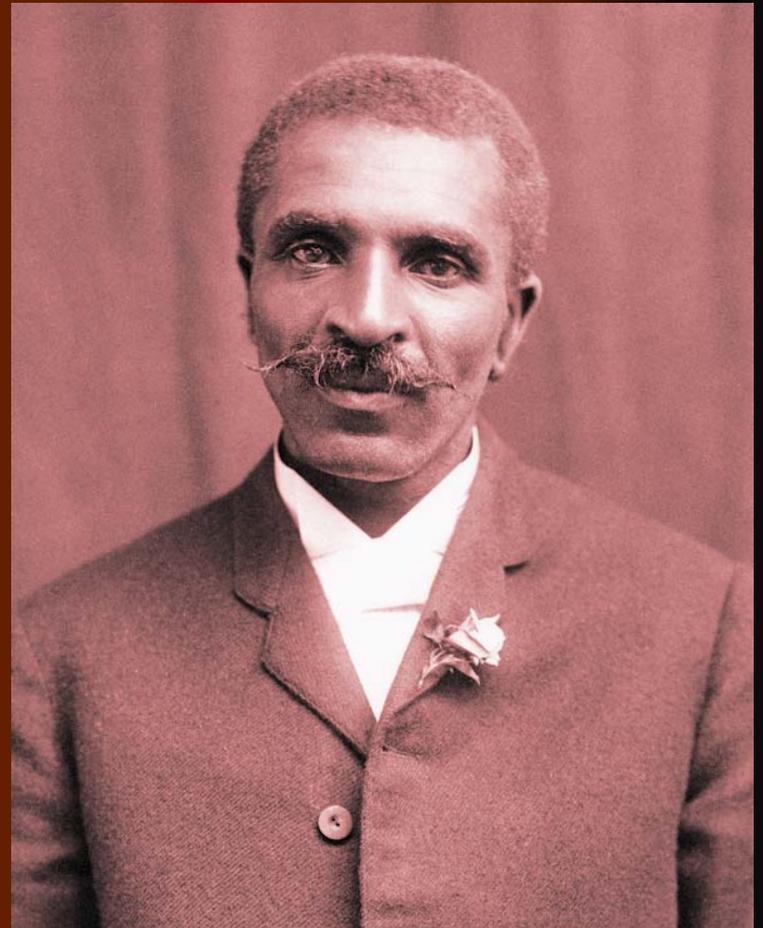
**Christian:** The knowing of God, the creator of the universe, personally. Belief in God's supremacy and saving grace made possible through the sacrifice of His son, Jesus Christ.

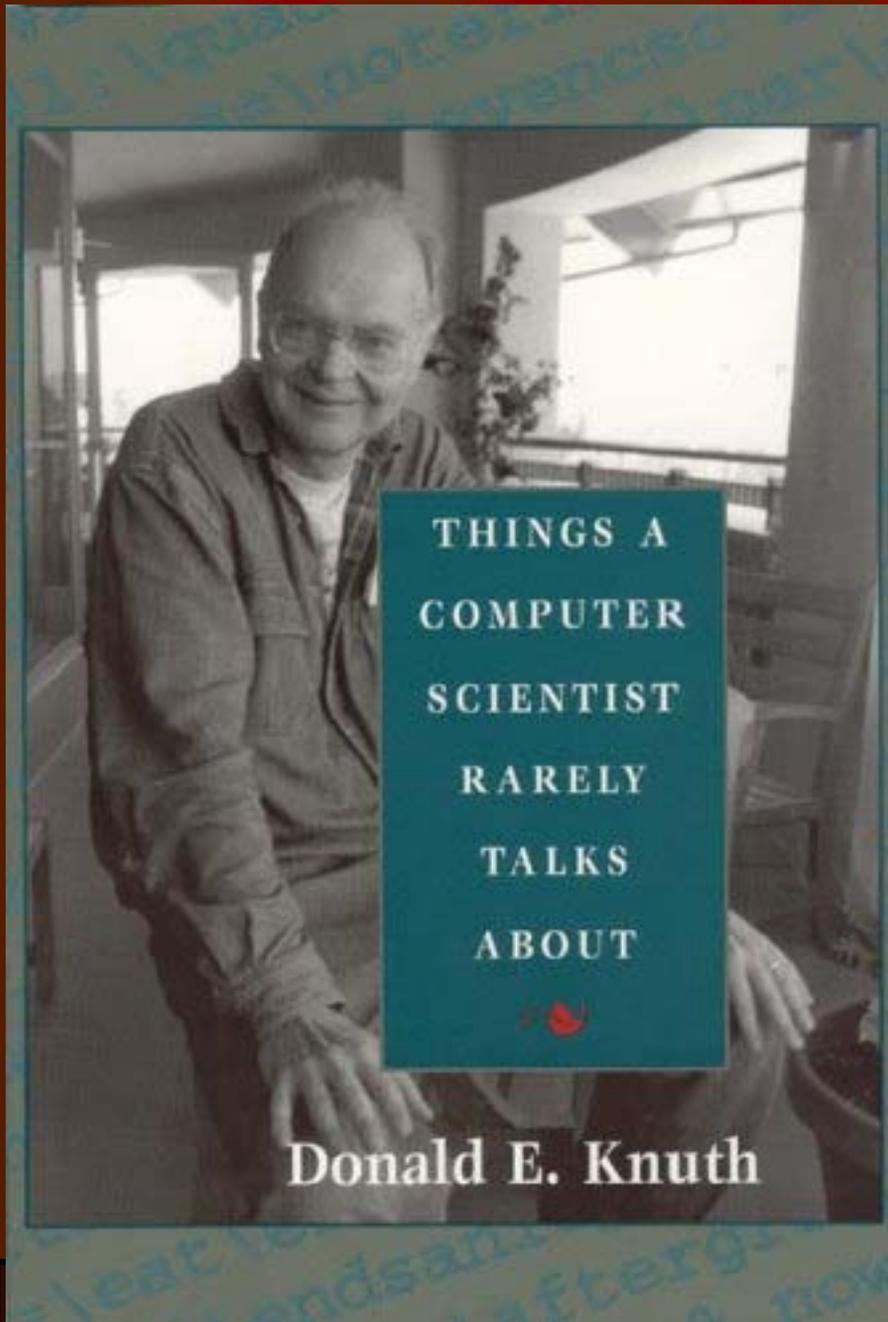
What were the belief of these theist scientist?



# 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.”





# Donald Knuth

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

“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

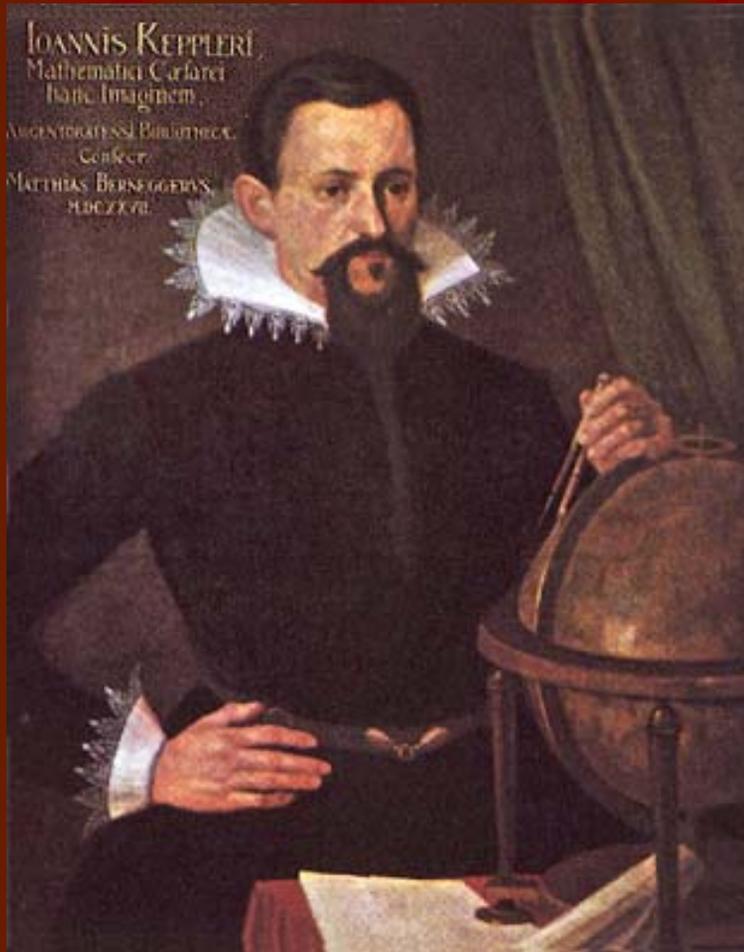


**“We account the Scriptures of God to be the most sublime philosophy. I find more sure marks of authenticity in the Bible than in any profane history whatsoever... Worshiping God and the Lamb [Jesus Christ] in the temple: God, for his benefaction in creating all things, and the Lamb, for his benefaction in redeeming us with his blood.”**

**Sir Isaac Newton**



# Johannes Kepler



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

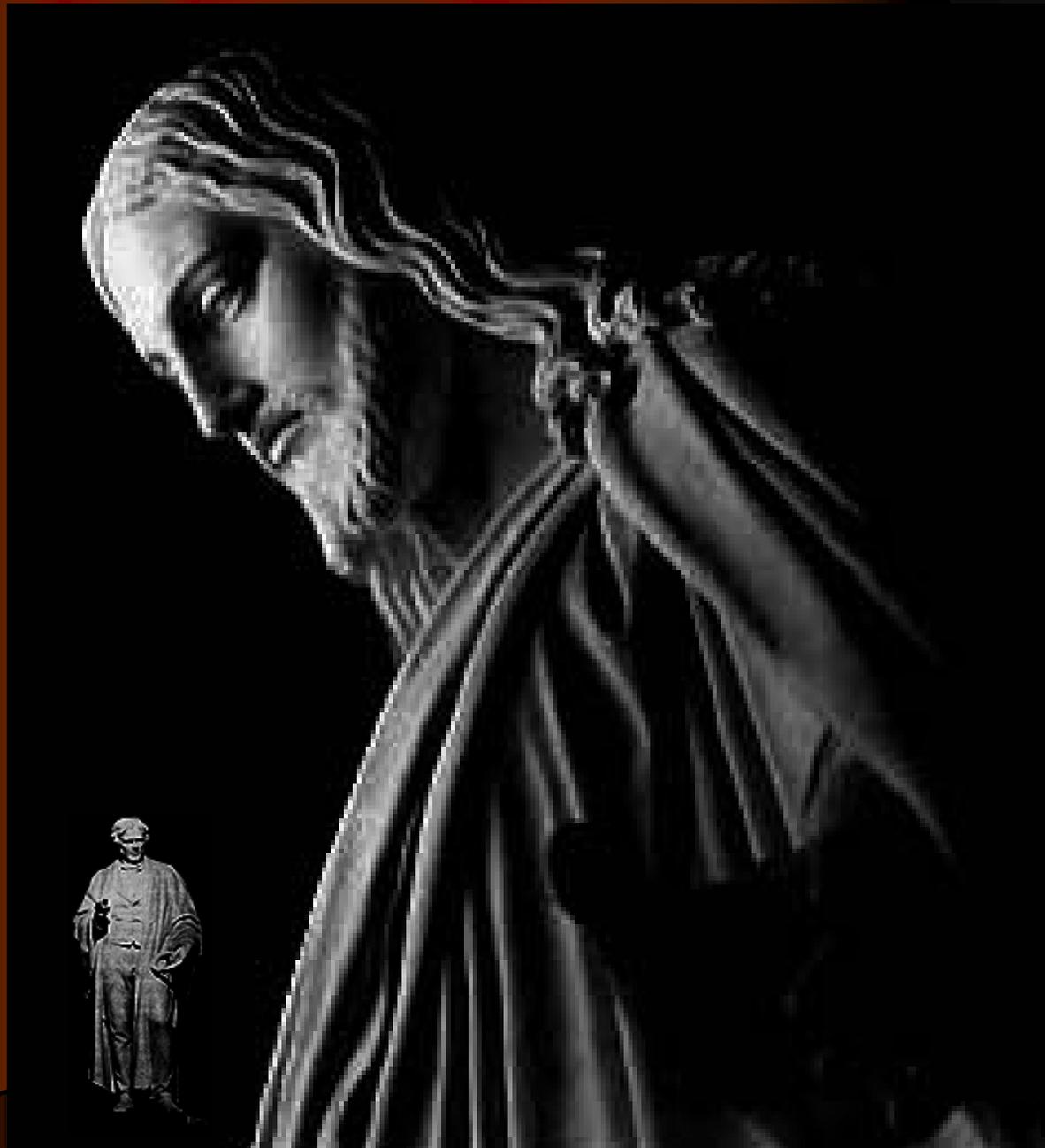


**“[T]hough the thought of death brings the thought of judgment, it also brings to the Christian thought of Him [Jesus Christ] who died, ... [and] rose again for the justification of those who believe in Him.”  
Michael Faraday**

**“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.**

**“Christ [is] the  
power of God  
and the wisdom  
of God. The  
Christian  
religion is a  
revelation and  
that revelation  
is the Word of  
God.”**

***Michael  
Faraday***



# *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."

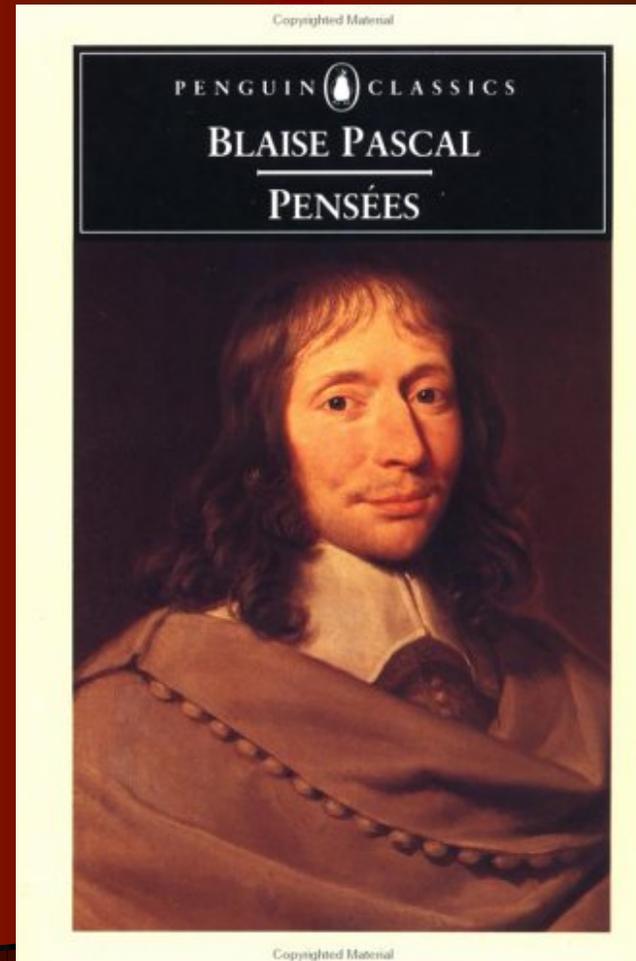
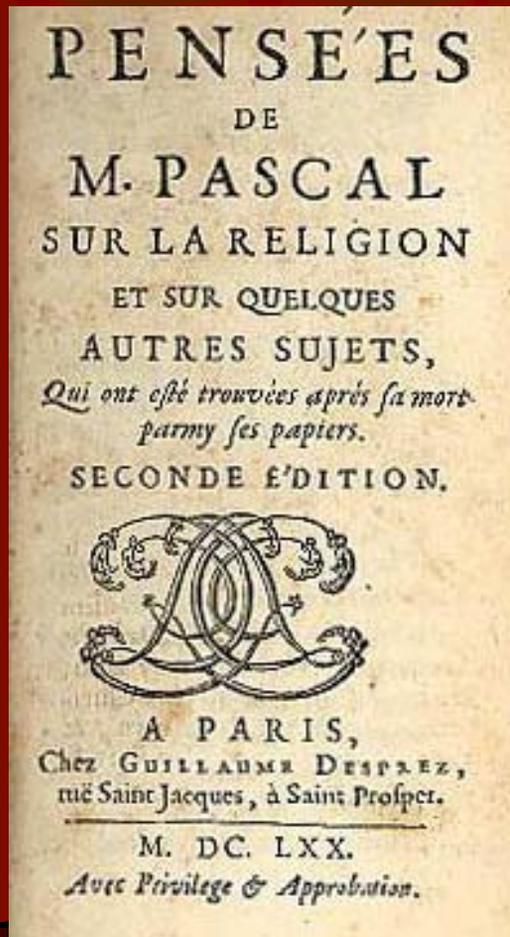
"WE CAN ABSOLUTELY TRUST IN ALL THE PROMISES GIVEN IN THE GOSPEL."

## LEONHARD EULER

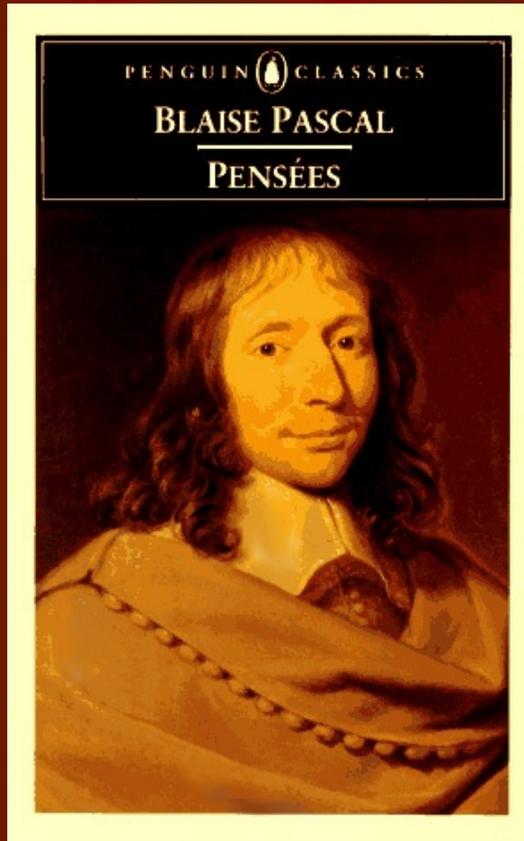
EULER'S NUMBER ( $e$  in  $e^x$ ), EULER'S IDENTITY,  
EULER'S FORMULA, EULER-LAGRANGE EQUATION, EULER-  
MASCHERONI CONSTANT, EULER'S TOTIENT FUNCTION,  
EULER-MACLAURIN FORMULA, EULERIAN PATH

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 Wager

**“How can anyone lose who chooses to become a Christian? If, when he dies, there turns out to be no God and his faith was in vain, he has lost nothing - in fact, he has been happier in life than his nonbelieving friends. If, however, there is a God and a heaven and hell, then he has gained heaven and his skeptical friends will have lost everything in hell!”**

*Henry H. Morris, Men of Science-Men of God (El Cajon, CA: Master Books, A Division of Creation Life Publishers, Inc., 1988), pp. 15-16.*

# Pascal's Wager: A Venn Diagram

You Believe!

You Don't Believe.

No  
God

**At least  
you led  
a good  
life!**



**Life with  
limited  
purpose**



God  
Exists

**Eternity  
With  
God!**



**Eternity  
Without  
God**



# 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.

# **Pascal's Conversion** *(cont)*

*"Jesus Christ*

**I have separated myself from Him:**

**I have fled from Him,  
denied Him,  
crucified Him.**

**Let me never be separated from Him.**

**We keep hold of Him only by the ways taught in the  
Gospel.**

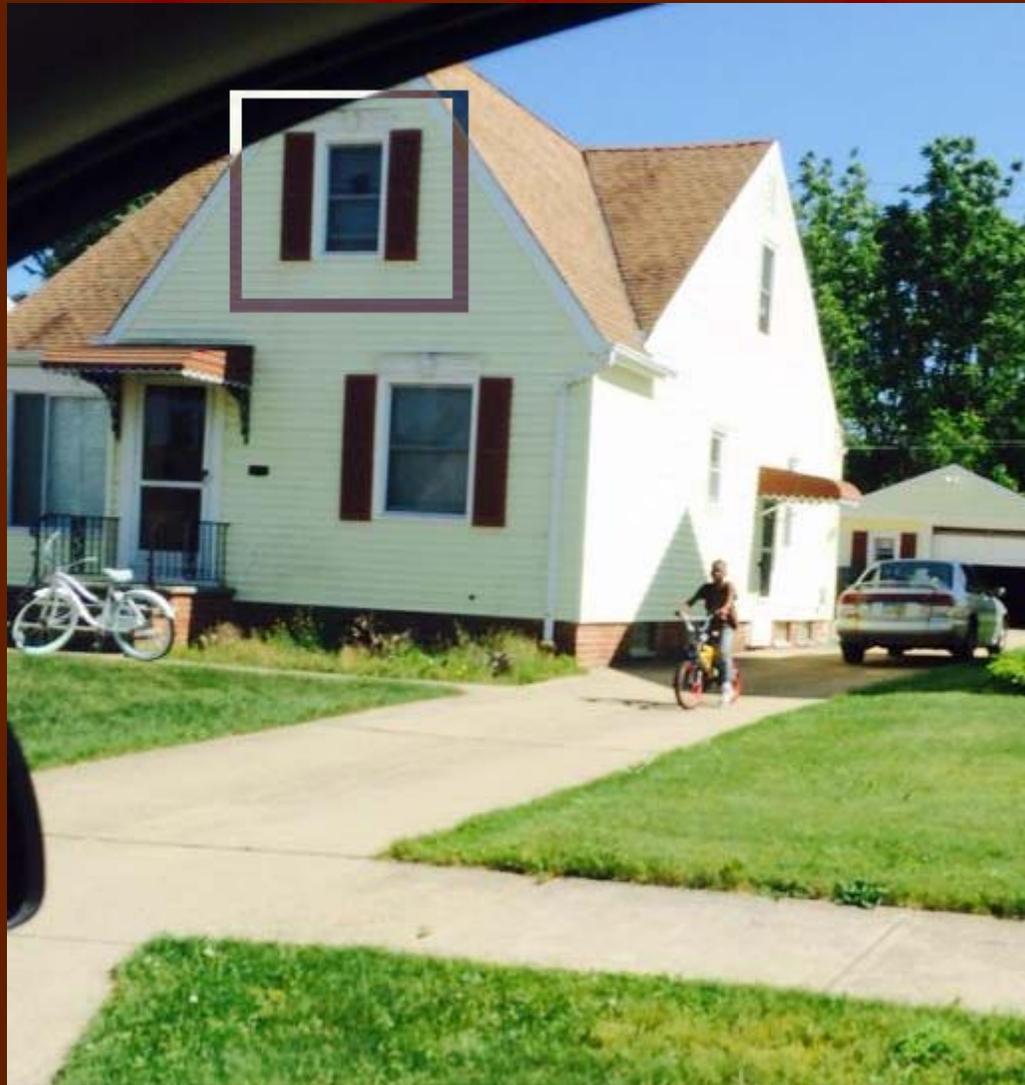
**Renunciation, total and sweet.**

**Total submission to Jesus Christ and to my director.  
Eternally in joy for a day's training on earth.**

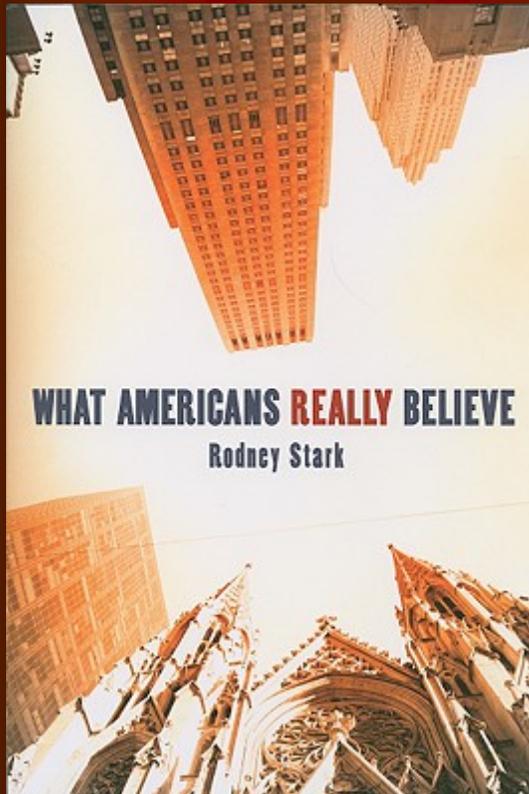
**"I will not forget thy words." (Ps 119:16) Amen.**

# Pascal's Prayer

**Almighty God, who gave your servant Blaise Pascal a great Intellect, that he might explore the mysteries of your creation, and who kindled in his heart a love for you and a devotion to your service: Mercifully give us your servants, according to our various callings, gifts of excellence in body, mind, and will, and the grace to use them diligently and to your glory, through Jesus Christ our Lord, who lives and reigns with you and the Holy Spirit, one God, now and for ever.”**



# What about today?

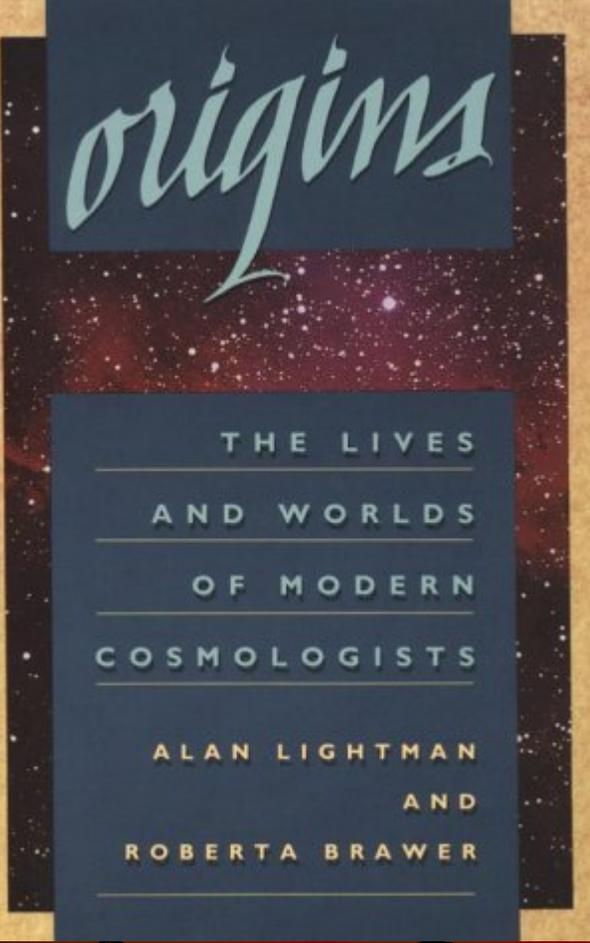


**TABLE 6**  
*Percent of Americans Who Belong to a Local Congregation*

1776	17%
1850	34%
1860	37%
1870	35%
1890	45%
1906	51%
1916	53%
1926	56%
1952	59%
1980	62%
1990	64%
2005 <sup>o</sup>	69%

<sup>o</sup> From the Baylor survey<sup>17</sup>

# What About Today ?



*origins*

THE LIVES  
AND WORLDS  
OF MODERN  
COSMOLOGISTS

ALAN LIGHTMAN  
AND  
ROBERTA BRAWER

“...contrary to popular myth, scientists appear to have the same range of attitudes about religious matters as does the general public.” Alan Lightman



<http://www.leaderu.com/offices/schaefer/docs/scientists.html>

# John Polkinghorne



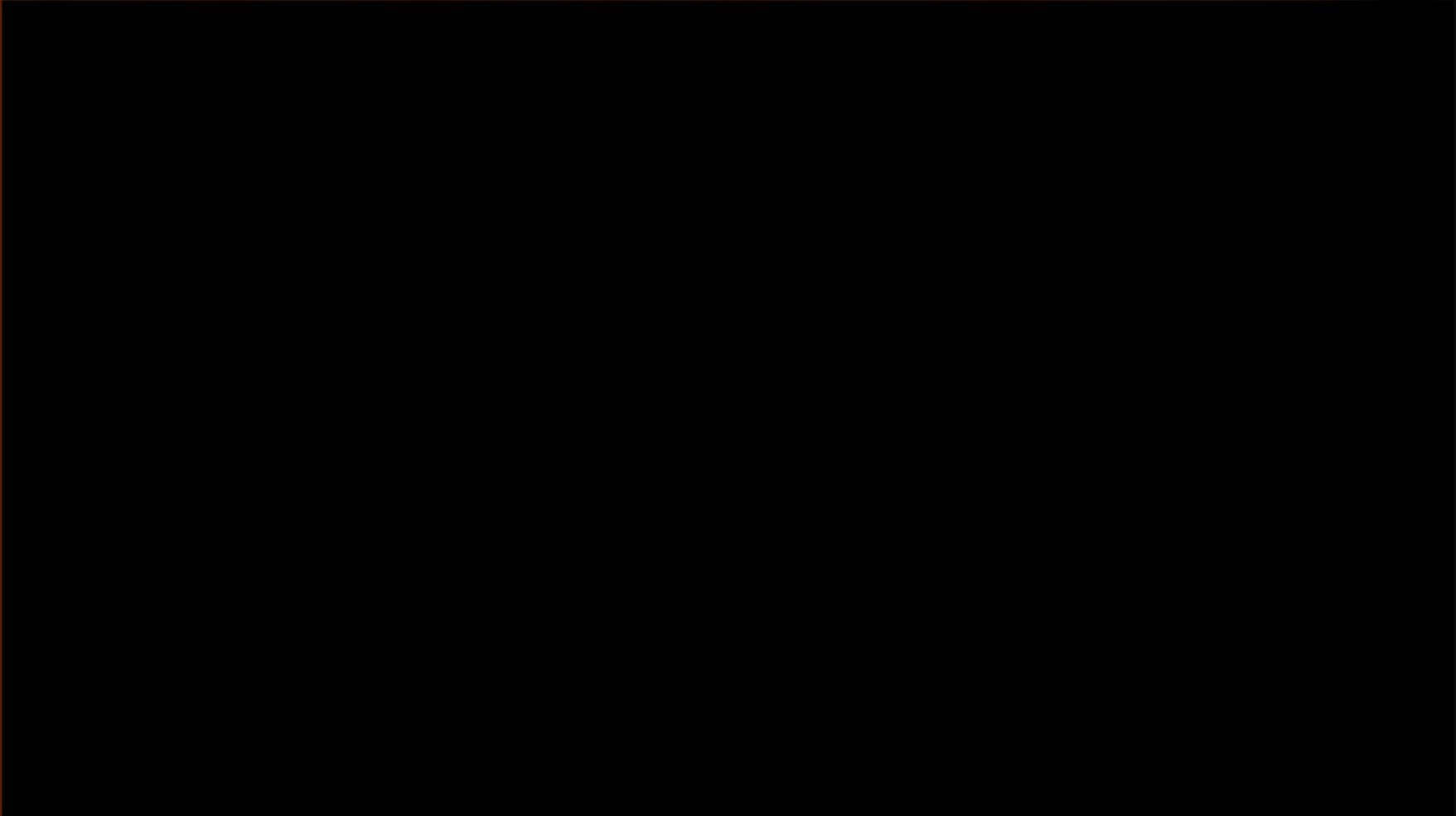
Science reveals an "intelligence beyond the universe"

# Can Atheism be Debated?

Recall Peter Atkins



# Peter Atkins with William Lane Craig



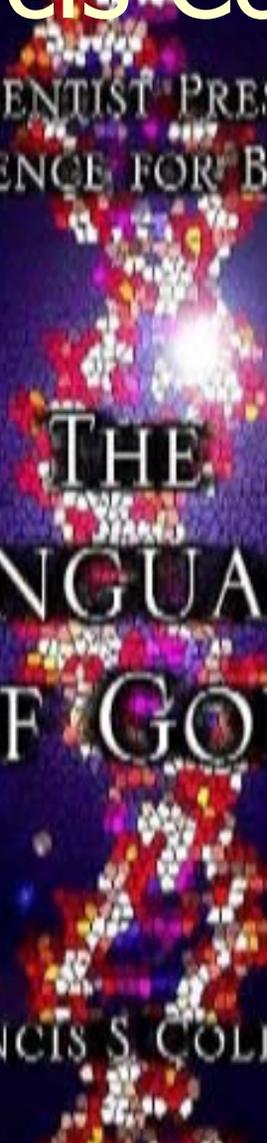
# John Lennox



Christ is "the only solution that makes sense"

# Francis Collins

A SCIENTIST PRESENTS  
EVIDENCE FOR BELIEF



THE  
LANGUAGE  
OF GOD

FRANCIS S. COLLINS

Responding to question: "Did you have ... a born again experience?"

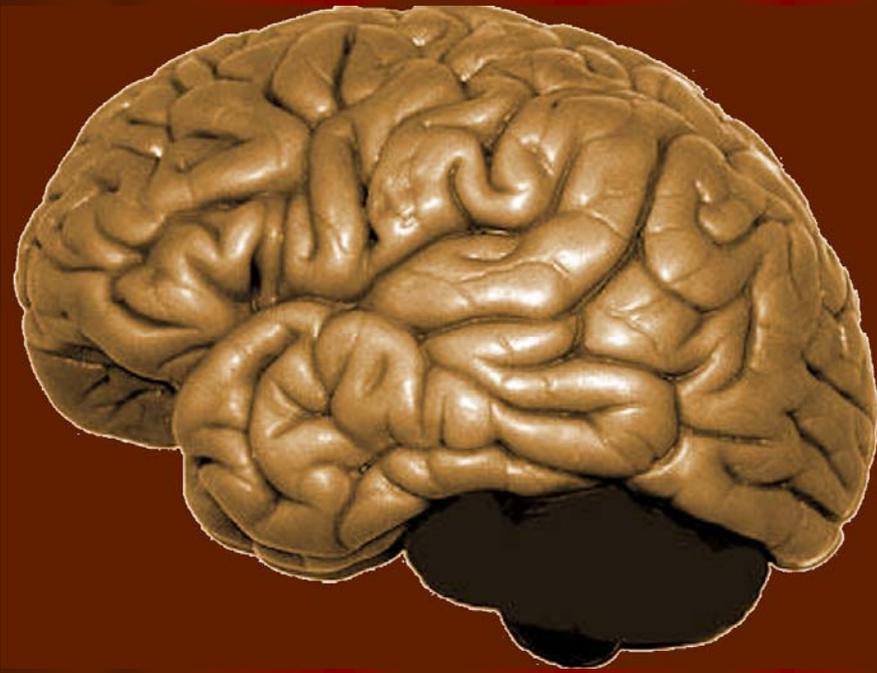
# John Sanford



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

# 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
- Faith in Christ is not correlated with intellect.
- Science apologetics run deep.



What is the appeal  
of Christ?

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# Christian Calculus.com

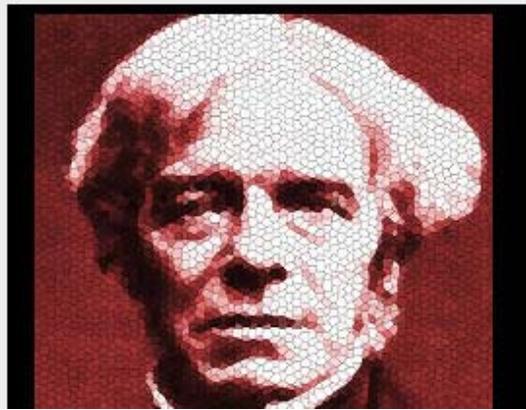
*we know what they did.  
here's what they believed.*

## 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 Faraday](#)
- [Louis Pasteur](#)
- [Leonhard Euler](#)

## Other Resources

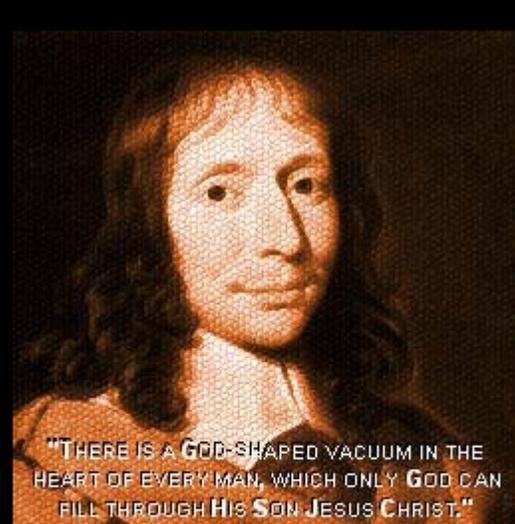
- [Scientists & Their God](#)
- [Scientists of the Christian Faith](#)





- Extra Slides

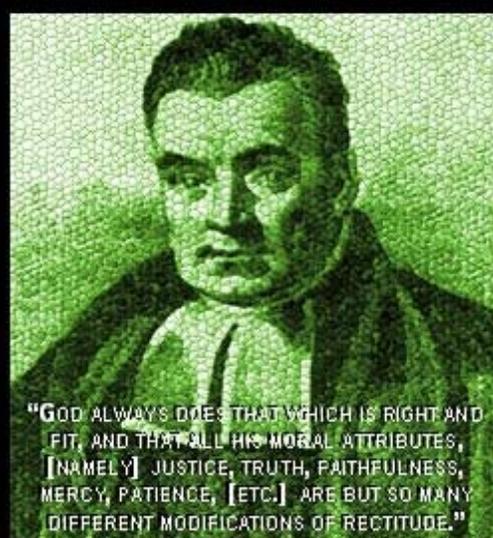
More Info:  
[ChristianCalculus.org](http://ChristianCalculus.org)



"THERE IS A GOD-SHAPED VACUUM IN THE HEART OF EVERY MAN, WHICH ONLY GOD CAN FILL THROUGH HIS SON JESUS CHRIST."

## BLAISE PASCAL

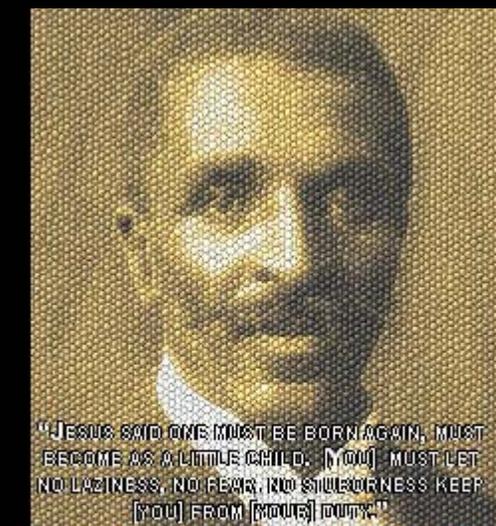
METRIC UNIT FOR PRESSURE PASCAL'S WAGER  
INVENTOR OF PASCALINE COMPUTER  
PASCAL'S NEGATIVE BINOMIAL DISTRIBUTION  
PASCAL'S TRIANGLE



"GOD ALWAYS DOES THAT WHICH IS RIGHT AND FIT, AND THAT ALL HIS MORAL ATTRIBUTES, [NAMELY] JUSTICE, TRUTH, FAITHFULNESS, MERCY, PATIENCE, [ETC.] ARE BUT SO MANY DIFFERENT MODIFICATIONS OF RECTITUDE."

## THE REVEREND THOMAS BAYES

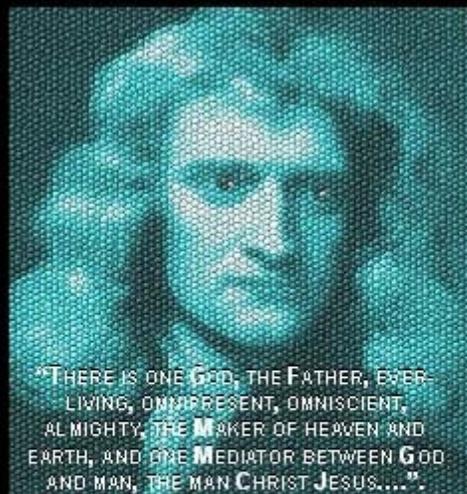
BAYES THEOREM  
BAYSIAN INFERENCE BAYSIAN STATISTICS



"JESUS SAID ONE MUST BE BORN AGAIN, MUST BECOME AS A LITTLE CHILD. [YOU] MUST LET NO LAZINESS, NO REVER, NO SUREBORNNESS KEEP [YOU] FROM [YOUR] DUTY!"

## GEORGE WASHINGTON CARVER

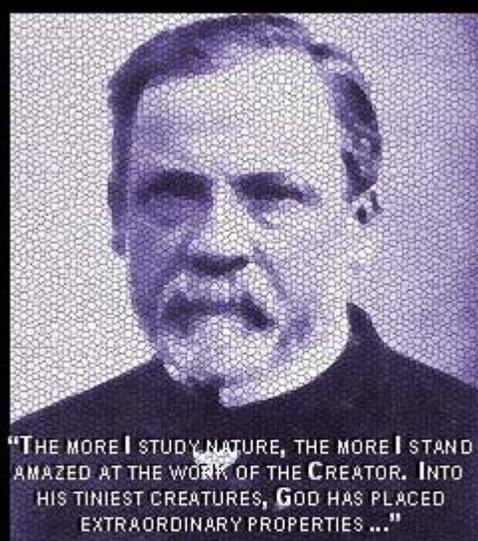
AMERICAN BOTANIST & INVENTOR OF OVER 300  
AGRICULTURAL PRODUCTS



"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

NEWTON'S LAWS OF MOTION THE CALCULUS  
METRIC UNIT FOR FORCE NEWTONIAN PHYSICS  
NEWTONIAN TELESCOPE UNIVERSAL GRAVITATION  
NEWTON'S RINGS NEWTON-RAPHSON METHOD



"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

PASTEURIZATION IMMUNOLOGY  
CONFIRMED THE GERM THEORY OF DISEASE

# Solomon's Sage Advice for Scholars...

