

American Minute with Bill Federer

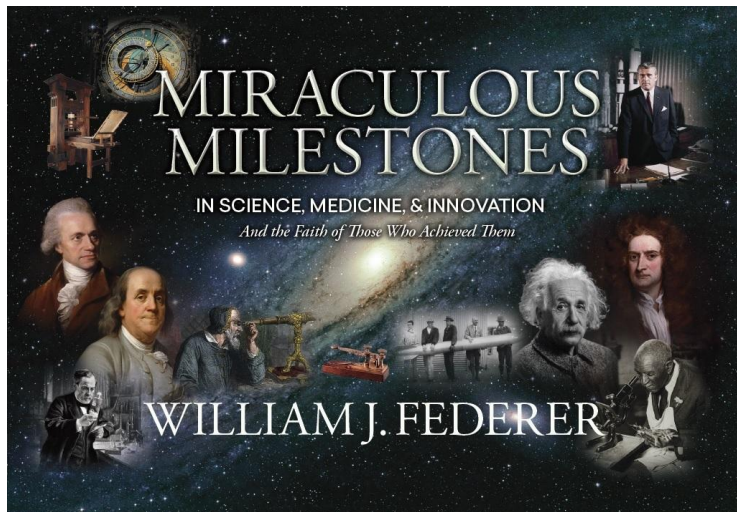
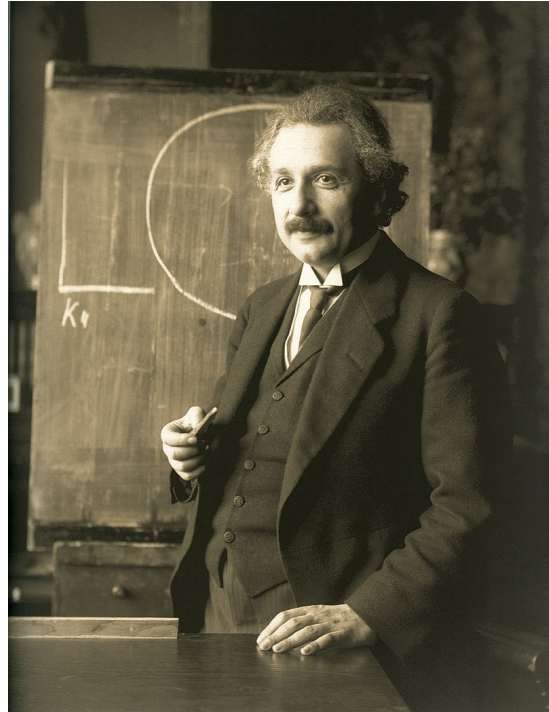
Albert Einstein "I observe the Laws of Nature ...
There are not Laws without a Lawgiver"

Albert Einstein was born in Germany on MARCH 14, 1879.

He began teaching himself calculus at age 14...

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[MIRACULOUS MILESTONES in Science, Medicine & Innovation - And the Faith of Those Who Achieved Them](#)

While a student at physics-mathematics section of the Polytechnic Institute in Zurich, he met Mileva Mariæ, whom he studied together with. She helped him with papers and articles, advancing his career.

They eventually married in 1903. Albert and Mileva had a daughter, Lieserl, and two sons, Hans Albert and Eduard.

Correspondence indicates she may have contributed materially to his early research, so much so, that after their divorce in 1919, he gave her the money from winning the Nobel Prize.

With a doctorate from the University of Zurich, **Einstein** wrote papers on electromagnetic energy, relativity, and statistical mechanics.

Einstein predicted a ray of light from a distant star would appear to bend as it passed near the Sun.

When an eclipse confirmed this, ***The London Times*** ran the headline, November 7, 1919, "Revolution in science - - New theory of the Universe -- Newtonian ideas overthrown."

In 1921, **Albert Einstein** won the Nobel Prize in Physics, gaining international recognition.

Einstein's first visit to the United States was to raise funds for Jerusalem's Hebrew University.

On his 3rd visit, 1932, he took a post at Princeton University.

When the **National Socialist Workers Party** (Nazi) took control of Germany, they barred Jews from holding official positions or teaching at universities.

Nazi propaganda minister Joseph Goebbels proclaimed "Jewish intellectualism is dead" and burned books by Jewish authors, **including Einstein's works.**

Jewish poet Heinrich Heine prophetically penned in 1822:

"Where they burn books, they will, in the end, burn human beings too."

A current instance of this was reported in the *Breitbart*

News article "ISIS Burns Books at Mosul Libraries"
(February 5, 2015):

"The Islamic State ... raided the Central Library of Mosul to destroy all non-Islamic books.

These books promote infidelity and call for disobeying Allah,' announced a militant to the residents. 'So they will be burned.'

Militants targeted the library at the University of Mosul. They burned science and culture textbooks in front of the students."

Concern is growing over recent anti-Semitic comments made by politicians and radical campus groups, which forebode a resurgence of Jewish persecution.

A *FoxNews* headline (3/8/19) read:

"Failure to condemn anti-Semitic Rep. Omar by House Democrats is a profile in cowardice."

Commenting on socialist redistribution of wealth, **Albert Einstein** stated:

"I am absolutely convinced that no wealth in the world can help humanity forward, even in the hands of the most devoted worker in this cause.

The example of great and pure individuals is the only thing that can lead us to noble thoughts and deeds ... Can anyone imagine Moses, Jesus, or Gandhi armed with the moneybags of Carnegie?"

Einstein stayed in the United States, becoming a citizen in 1940.

Einstein's theory of relativity, $E=MC^2$, is "**energy equals mass times the speed of light squared.**"

It is the basis for applying atomic energy.

Berkeley Lab published the article (9/23/20) "CERN's Large Hadron Collider Creates Matter From Light":

"The Large Hadron Collider (LHC) plays with Albert Einstein's famous equation, $E = mc^2$, to transform matter into energy and then back into different forms of matter. But on rare occasions, it can skip the first step and collide pure energy – in the form of electromagnetic waves.

Last year, the ATLAS experiment at CERN's LHC observed two photons, particles of light, ricocheting off one another and producing two new photons.

This year, scientists have taken that research a step further and discovered photons merging and transforming into something even more interesting: W bosons, particles that carry the weak force, which governs nuclear decay.

... The research doesn't just illustrate the central concept governing processes inside the LHC: that energy and matter are two sides of the same coin.

It also confirms that at high enough energies, forces that seem separate in our everyday lives – electromagnetism and the weak force – are united."

Describing the **theory of relativity**, that the closer one approaches the speed of light time slows down, **Albert Einstein** said:

"When a man sits with a pretty girl for an hour, it seems like a minute.

But let him sit on a hot stove for a minute -- and it's longer than any hour.

That's relativity."

Albert was married to his cousin, **Elsa**, from 1921 till her death in 1936.

His accountant, Leo Mattersdorf of New York, wrote (*TIME Magazine*, 1963):

"One year while I was at his Princeton home preparing his return, Mrs. Elsa Einstein, who was then still living, asked me to stay for lunch.

During the course of the meal, the professor (Einstein) turned to me and with his inimitable chuckle said: **'The hardest thing in the world to understand is income taxes.'**"

Einstein's warning that Nazis could create the atom bomb led **President Franklin D. Roosevelt** to set up the Manhattan Project.

In November of 1952, **Prime Minister David Ben-Gurion** asked **Einstein** to be **Israel's 2nd President**, but he declined due to age, dying less than 3 years later.

Being "deeply moved" by the offer, **Einstein** replied:

"My relationship with the Jewish people became my strongest human tie."

The periodic table's 99th element, discovered shortly after his death in 1955 was named **"einsteinium."**

Albert Einstein was quoted in *The New York Times*, November 9, 1930, saying:

"I assert that the cosmic religious experience is the strongest and noblest driving force behind scientific research."

Paraphrasing Miguel de Cervantes' quote "I do not believe that the Good Lord plays dice," **Einstein** stated:

"God Almighty does not throw dice."

He added:

"Before **God** we are all equally wise -- equally foolish."

In ***Einstein and the Poet: In Search of the Cosmic Man*** (1983), William Hermanns recorded **Einstein's** 1943 statement:

"Creation may be spiritual in origin, but that doesn't mean that everything created is spiritual ...

Let us accept the world is a mystery. Nature is neither solely material nor entirely spiritual. Man, too, is more than flesh and blood; otherwise, no religions would have been possible.

Behind each cause is still another cause ... Yet, only one thing must be remembered: **there is no effect without a cause**, and there is no lawlessness in creation."

As recorded by Helen Dukas in ***Albert Einstein, The Human Side*** (Princeton University Press, 1981, p. 66), **Einstein** stated:

"My religiosity consists in a humble admiration of the infinitely superior spirit that reveals itself in the little that we, with our weak and transitory understanding, can comprehend of reality.

Morality is of the highest importance -- but for us, not for **God.**"

Einstein stated in an interview published in G.S. Viereck's book ***Glimpses of the Great***, 1930:

"I'm absolutely not an atheist ... The problem involved is too vast for our limited minds.

We are in the position of a little child entering a huge library filled with books in many languages. The child knows someone must have written those books. It does not know how. It does not understand the languages in which they are written.

The child dimly suspects a mysterious order in the arrangement of the books but doesn't know what it is. That, it seems to me, is the attitude of even the most intelligent human being toward **God**.

We see the universe marvelously arranged and obeying certain **laws** but only dimly understand these **laws**."

Walter Isaacson quoted **Einstein** in the article "**Einstein and Faith**," *Time* 169, April 5, 2007, 47):

"The fanatical atheists ... are like slaves who are still feeling the weight of their chains which they have thrown off after hard struggle.

They are creatures who -- in their grudge against the traditional 'opium of the people' -- cannot bear the 'music of the spheres.'"

Einstein's referenced to the "music of the spheres" is a religious concept used through the Medieval-Renaissance period to describe an orbital resonance of the planets.

Johannes Kepler, who discovered the laws of planetary motion, compared the eight planets in the solar system to the eight notes in music - an octave.

Kepler wrote in ***The Harmonies of the World***, 1619:

"**Holy Father**, keep us safe in the concord of our love for one another, that we may be one just as Thou art with Thy Son, Our Lord, and with the Holy Ghost,

and just as through the sweetest bonds of **harmonies**
Thou hast made all Thy works one,

and that from the bringing of Thy people into concord, the
body of Thy Church may be built up in the Earth, as Thou
didst erect the heavens themselves out of **harmonies.**"

Yale professor **Benjamin Silliman**, who founded the
American Journal of Science and Arts in 1818, stated:

"The relation of **geology**, as well as **astronomy**, to the
Bible, when both are well understood, is that of perfect
harmony ...

The **Word** and the **works of God** cannot conflict, and the
more they are studied the more perfect will their
harmony appear."

According to Prince Hubertus (Ronald W. Clark,
Einstein: The Life and Times, New York: World
Publishing Company, 1971, p. 425), **Einstein** stated:

"In view of such **harmony** in the cosmos which I, with my
limited human mind, am able to recognize, there are yet
people who say there is no God. But what really makes
me angry is that they quote me for the support of such
views."

Einstein wrote to M. Berkowitz, 1950, (William
Hermanns, *Einstein and the Poet. In Search of the
Cosmic Man*, Brookline Village MA: Branden Books,
1983, p. 60):

""**God**' is a mystery. But a comprehensible mystery. I
have nothing but awe when I observe the **laws of
nature.**

There are not **laws** without a **lawgiver**, but how does this
lawgiver look? Certainly not like a man magnified."

Though not believing in a personal God, *The Saturday Evening Post*, October 26, 1929, published **George Sylvester Viereck's** interview with **Albert Einstein**.

When asked "To what extent are you influenced by Christianity," **Einstein** answered:

"As a child I received instruction both in the **Bible** and in the **Talmud**. I am a **Jew**, but I am enthralled by the luminous figure of the Nazarene."

When asked "Have you read Emil Ludwig's book on Jesus," **Einstein** replied:

"Emil Ludwig's Jesus is shallow. Jesus is too colossal for the pen of phrasemongers, however artful. No man can dispose of Christianity with a bon mot! (witty remark)"

When asked "You accept the historical existence of Jesus," **Einstein** answered:

"Unquestionably! No one can read the Gospels without feeling the actual presence of Jesus. His personality pulsates in every word. No myth is filled with such life."

In 1931, astronomer **Edwin Hubble** invited **Einstein** to the **Mount Wilson Observatory** in Pasadena, California.

After viewing the "red shift" of distant stars revealing an expanding universe, **Einstein** remarked

"I now see the necessity of a **beginning**."

Princeton University's Fine Hall has inscribed **Albert Einstein's** words above the fireplace:

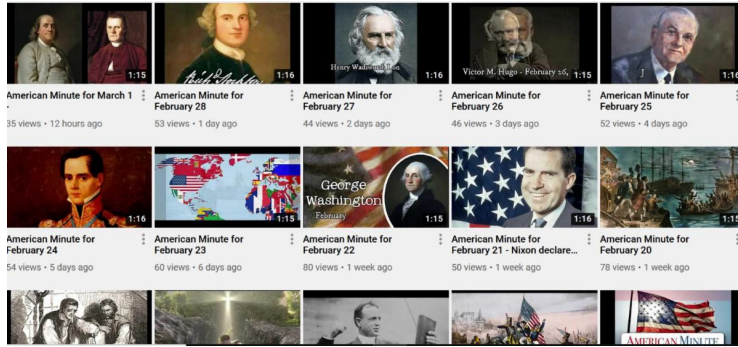
"Raffiniert ist der Herr **Gott**, aber Boshaft ist er nicht."

(God is clever, but not dishonest.)

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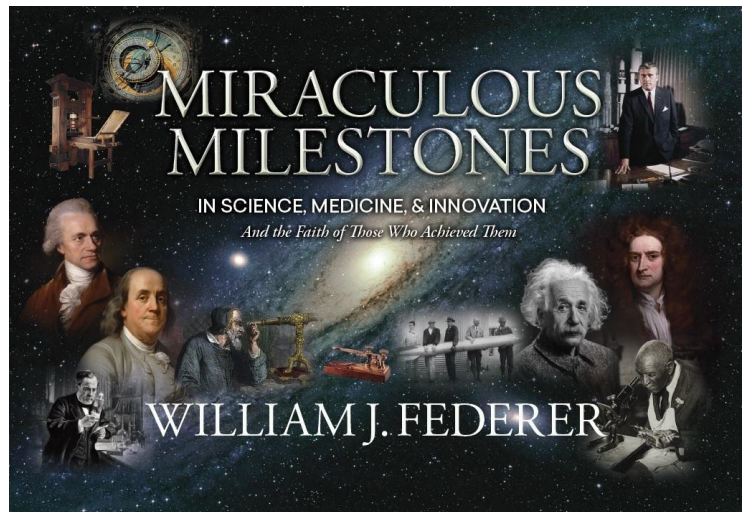
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