

This Free E-Book is brought to you by Natural-Aging.com.

100% Effective Natural Hormone Treatment
Menopause, Andropause And Other Hormone Imbalances
Impair Healthy Healing In People Over The Age Of 30!

How Do We Know What Time It Really Is? (Part 2)

By Thomas Young

The role of the Universe in Keeping Time

Methods of keeping track of time date back to ancient days, but it wasn't until the 19th and 20th centuries that the science behind more accurate timekeeping and how that relates to the universe around us was more understood — or at least investigated. Key players in science and mathematics also played an important role in trying to understand how time works. Prominent scientific figures such as Galileo and Dutch astronomer Christian Huygens led the understanding of time in the 16th and 17th centuries, but it was Albert Einstein, Carl Neumann, and the like who looked at absolute and mathematical time at the end of the 19th and beginning of the 20th centuries and then questioned those theories even further to try to explain the workings of modern timekeeping.

Sir Isaac Newton (1643–1727) was an English mathematician upon whose theory more investigation into time was based. Newton's law of inertia, which meant that one particle in space, not acted upon by other forces, continued to move in the same direction and would remain at the same speed, was the basis of Carl Neumann's (1832–1925) development of the inertial clock in 1883. He believed, however, that absolute time didn't rely upon absolute space. This meant the law of inertia given intervals which could be measured would measure absolute time.

At the beginning of the 20th Century it was Albert Einstein (1879–1955) who refuted the idea that time is absolutely defined and hypothesized that time is connected to the speed of light, thus giving birth to the theory of special relativity. Einstein reportedly said, "My solution was really for the very concept of time, that is, that time is not absolutely defined but there is an inseparable connection between time and the velocity of light."

Gravity, Einstein discovered also has an impact on time. He observed that the passage of time is slower where there is more gravitational pull compared to where there is not as much. The Earth's gravitational pull and rotation meant that a clock on Earth will lose about 1 one-billionth of a second per hour.

In the 20th Century we also have the discovery of quantum mechanics. Quantum mechanics had an

How Do We Know What Time It Really Is? (Part 2)

impact on the understanding of time and introduced the idea that there are several dimensions that impact time.

As many scientific theories as there are related to time and how it is measured, it is still the basis of the quartz clock that has standardized how time is measured today. It relies on the theory that a quartz crystal will vibrate in an electric field at the same standardized frequency. These findings utilized the principles related to the way a mechanical and free pendulum works. (Link to article #3 on the pendulum.)

Even today, new ideas are emerging about time and its relationship to the universe. What is "now" and how does that impact the "future" and measure the "past?" Those were questions posed by Einstein himself and still at the forefront of research. Perhaps an understanding of "now" is "outside the realm of science," as suggested by Einstein, and we must simply rely on the modern interpretation set forth by organizations like the National Institute of Standards and Technology (NIST) and their double

pendulum clock to measure time.

Thomas Young is a watch collector. Visit –

<http://www.internationalwatchclub.com>

for information on

over 200 different brands of watches –

<http://www.internationalwatchclub.com>

, including popular brands

like Citizen Watch and Rolex Watch –

<http://www.internationalwatchclub.com/rolex-watches>

. It is purely

an informational site.

Letting Go Of Our Negativity

By Stephanie Davies

Letting Go Of Our Negativity by Stephanie Davies

Everyone has something, whether it be a habit, or aspect of their personality, that they wish that they

How Do We Know What Time It Really Is? (Part 2)

didn't have. For me, that something is fear. I am constantly afraid of just about anything you could name...car crashes, meeting new people, tornados, driving in the dark, sleeping with the closet open, public speaking...you name it, I'm probably afraid of it! This is a negative habit, and certainly one I would like to change.

Most people can name at least one similar habit or personality trait off the top of their head. Think about it for a moment. What part of yourself would you truly like to be rid of? Now take that part of you, and imagine it disappearing forever. If you want, you can even make it more physical and real by writing that trait down on a piece of paper, then burying it or destroying it.

It IS possible to change our lives for the better. The hard part is knowing how to do it. If you are aware of that part of you that you want to let go, it makes it much easier to not let that part of you develop or take over in your life. Also the support of friends can help immensely as well – whether they be in real life or on the internet!

This is the season of changes, and you need to BELIEVE that you can change your life for the better. Be aware of your negative aspects, and actively try to stop them from developing. Focus on the positive, and realize that as the seasons change, so do we, as we mature and grow into the people we wish to be.

Stephanie is the webmaster of StephanieDavies.com and provides live telephone advice of all kinds to people from all over the world. She gives advice on depression, mental health, spirituality, sexuality, relationships, and many other topics. For more information please visit her website at <http://www.stephaniedavies.com> or subscribe to her newsletter by visiting <http://groups.yahoo.com/group/liveadvice>



This Free E-Book has been brought to you by Natural-Aging.com.

[100% Effective Natural Hormone Treatment](#)
Menopause, Andropause And Other Hormone Imbalances
Impair Healthy Healing In People Over The Age Of 30!