

Are we about to unlock the mysteries of space and time?

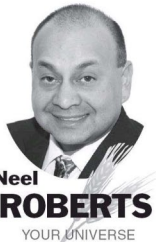
Famed British author H.G. Wells is best known for his 1896 novel "The Time Machine" which fascinated his readers of possibly travelling backwards to explore the past.

Not long after that in 1905, Albert Einstein published the theory of relativity which in a nutshell proposes time changes when the speed of light is exceeded better known as $E=MC^2$:

is energy, M is mass, and C is the speed of light in a vacuum or 1,080,000,000 kms/h (7 times around the Earth in 7.5 seconds).

The theory states that if a traveller exceeds the speed of light, time slows down for them while the Earth ages normally, better known as "Time Dilation".

Therefore, if the traveller returns, they haven't aged much while the others have advanced significantly. Leonard Nimoy hosted a TV series "In Search of..." 40 years ago and one of the episodes #139 "Time and Space



Travel" <https://www.youtube.com/watch?v=WAEpFHHkqI&t=1330s> explained this in a 22 mini documentary.

Fast forward to 2018, his protégé Zachary Quito did a remake S1E5 "Time Travel" <http://m4ufree.fun/watch-insearchof-223111-tvshow-online-free-m4ufree.html> which included updates on CERN (European Organization for Nuclear Research) <https://home.cern>.

Recently, President Trump has been promoting the new "Space Force" (<https://www.afspc.af.mil/>) which is rumoured to have technology several generations ahead of current equipment.

As promised at his inauguration "We stand at the birth of a new millennium, ready to unlock the mysteries of space, to free the Earth from the miseries of disease, and to harness the energies, industries and technologies of tomorrow."

Albert Einstein died in 1955 with his theory untested but we maybe be able to finally prove it as early as this decade.

When asked about the possibility of the time machine, Einstein answered was "yes and no; yes, we can do it, but no we'd better not."

Why do you think this was his reply? Simple put, the winners write the records, but they may not accurately reflect what happened.

With the certain landslide, re-election of Trump this fall, we just may all finally use Einstein's theory to travel back and know what's real!

Sky watch for the next month:

1. Mars, Jupiter & Saturn pre dawn rise- On Tuesday March 31st around 04:30 am watch Jupiter rise out of the SEE followed by Saturn & Mars until day break.
2. Spring Equinox- On Thursday, March 19th at 21:49 and the days are getting noticeably longer.
3. Daylight Savings here- Set your clock ahead at 02:00 am Sunday, March 8th.
4. Zodiacal Lights- Did you catch this last month? It's a faint, roughly triangular, whitish glow seen in the night sky extended up from the vicinity of the sun along the ecliptic or zodiac.

Best time is from Wednesday, March 11th for 2 weeks in the West after evening twilight.

Public Events for the next month:

Monthly Open House at Calgary's Rothney Observatory near Priddis- Dark energy is a major research focus in 2020 using the most advanced Radio Astronomy, gravitational wave detection and particle accelerator technology.

In the sky, Venus will be the star of the show shimmering her refracted light in the western sky.

The early setting of the waning moon will provide a perfectly dark night sky.

There will be an array of scopes operated by University of Calgary astronomers and members of the RASC Calgary.

You will have the opportunity to look through the telescopes, indoor presentation and astronomers will be on hand to answer questions on Saturday March 21st from 20:00 to 23:00.

The entrance fee \$30 per car. For further information, contact Jennifer Howse at jhowse@phas.ucalgary.ca, (403) 931-2366. Their website <https://www.ucalgary.ca/rao/> is updated regularly.

Happy Spring and Longer Days!
Neel Roberts is a member of the Calgary chapter of the Royal Astronomical Society of Canada (RASC)-the nation's leading astronomy club, founded in 1849 with over 5,000 members and 29 centers across Canada.

Neel welcomes your questions and comments at (403)560-6574, Neel_Roberts@ptccanada.com. The members meet once a month on weekends at Calgary's Rothney Observatory near Priddis and you can check out times at <https://www.ucalgary.ca/rao/calendar>. Like them at Facebook at <https://www.facebook.com/groups/272037680377/>, Twitter <https://twitter.com/CalgaryRASC> & YouTube <https://www.youtube.com/user/RASCCalgary>.