



Think Metric!

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PROFILE

Permit me to introduce myself as the 'individual researcher' investigating: Why Time & Arc-angle are not linked to length Unit METRE, and hence A possible World Calendar, using New base for SI-time unit? I am a former Air Force Engineer, (10313) Flt Lt Brij Bhushan Vij of AE(L) Branch, who on qualifying after Passing Section's 'A' & 'B' of the Institution of Engineers (India), was commissioned on 29th March 1964 (antedate inclusive).

I joined Indian Air Force in ranks – 218696 u/t AC₂ as an Electrician II, on 14th September 1954 with nothing to look forwards to, having migrated to post-partitioned India from LAHORE, as a child of just 11 years; but my 'zeal to study & be educated' lay within me. I believed in STOP NOT TILL MY GOAL was achieved! As the son of a Head Clark in railways, this was a tall claim, to realize and/or strive for?

My hitting an precedent idea resulted in an ***AFO 690/71 on Bright Ideas***. While I was a Flight Lieutenant that changed course of my thinking (and career too), after publication of my base works: A World Calendar for All Ages & Metric Norms for Time Standard (1971) in MEDIA; and The Metric Second & Metric Calendar Year (1973) through Bureau of Indian Standards, New Delhi, I realized this to be a virgin area where dedication was the 'key word'. Thence onwards, I continued to publish my ideas, on topics NOT connected with 'Defence Matters' through media which possibly put me up against my 'superiors' while filling a 'Squadron Leader' post, then serving at No 2 EE&IU, AF. What happened to my Air Force career is history untold/unheard, also risking my 'children's future'?

I knew, I was meant to examine the Calendar Question – afresh! My updates since 1970-71 are summed up at: <http://www.brijvij.com/synopsis-n-364d-options.doc> and my new Calendar RHYME at: http://www.brijvij.com/bb_CalRhyme.jpg on shifting a day from July (31st) and inserting this day as February (29th), during all years, making the 364-day or 52-week calendar in FOUR equal quarters of 91-days (13-weeks each). By keeping, A World Peace Day 365th day (December 31st) outside of Calendar format between December 30th and January 01st of next year.

A Leap Sunday (366th day) is inserted between June 30th and July 01st, making the TWO half-years of 183 days 'but modifying' the current Leap Day Rule from div.4/skip100th/count400th-years [Mean Year= 365+97/400 =365.2425 days] to improved value, which being the best possible on divide 4/ skip128th-years [Mean Year= 365+31/128 =365.2421875 days]. Please see: http://www.brijvij.com/bbv_Gen8Cal.doc. United States 'vetoed' – <http://personal.ecu.edu/mccartyr/Lodge.html>.and felt that the Calendar discussion could be postponed till a fresh and better option, was in sight. Here is ONE such option at: http://www.brijvij.com/bb_cb2013mgc.pdf which is also part of my works at: <http://www.brijvij.com/>.

My proposed approach is placed at: http://www.brijvij.com/bb_metro-contrbn.2007.pdf

While 'ideas' to introduce Leap Weeks to replace 'Leap Days' has been in the air since Year 1910, **NEVER did man propose to use 'SIMPLE' divide by six (6, 7 or 8) plan (for**

introducing Leap Weeks), like divide four(4) for Leap Days, I suggest TWO proposals to give improved Mean Year value using (7×128) i.e. 896-year/159 LWks/11082 lunar months i.e. $7 \times (52 + 159/896)$ days; also 2688-years/477 LWks cycle [Mean Year = $7 \times (52 + 1/6 + 29/2688) = 365.2421875$ days]. *This may be observed that 896-years (not divisible by six (6) but divisible by 7 & 8) are EXACTLY 159 Weeks to Leap*; or the alternate 834-year/148 LWks cycle [Mean Year = $7 \times (52 + 1/6 + 9/834) = 365.242206235012$ days]. Mean Year value of 365.2425 days **for currently** used Gregorian calendar can also be achieved, using divide six(6) Leap Weeks for 3×400 -year (i.e. 1200-years) cycle by inserting 13 Keplers' Leap Weeks (since 400 is not divisible by 6), at intervals of $(8 \times 90 + 5 \times 96)$ years, to give Mean Year = $7 \times [52 + 1/6 + 13/1200] = 365.2425$ days. This is also achieved by ADDING an 'extra day' at the end of 3200-years – if Mean Year = 365.2421875 days is made use of with changed Leap Day Rule, skipping at 128th year instead of div.4/skip100th-years. The same Mean Year value of 365,2421875 days is achieved using divide seven (7) as $7 \times (52 + 1/7 + 31/896)$ days or using divide eight (8) as $7 \times (52 + 1/8 + 47/896)$ days, subject to what jitter is acceptable to astronomers. My divide six Leap Weeks plan has exhaustively been discussed at Calndr-L and archived at Nabble!

I propose a NEW thought altogether, that I believe had been in vogue in ancient India (Harappa & Indus civilization). I examine the use of 'SIDEREAL DAYS' for the format of A World Tropico-Sidereal Calendar – the same as my Rhyme calendar http://www.brijvij.com/bb_CalRhyme.jpg . My examination and calculations suggest that 128-year/ 7×128 (i.e. 896-year) cycles are ideal and have the potential to be used for the purpose of a civil calendar, at NO or little ADDED costs to tax-payer; also stabilizing the cause of *Precession of Equinoxes* placed at: http://www.brijvij.com/bbv_128-896-yr_trSlr-wrldCal..pdf and http://www.brijvij.com/bbv_precession.doc. This approach give Mean Year = 366.2421875 days i.e. 365d 5h 48m 45s.00.

The clock face and Calendar format need NO REFORM/CHANGE, except the clock gets added 100 divisions (to represent 100 'decimal' minutes) along with current 60 minutes – during transition! **Holder of LIMCA BOOK of Indian Records (1994) on Decimalisation of Time of the Hour in relation with arc-angle, using Sidereal/solar Days.**

SOLAR-LUNAR Calculations & Harappa Tithi Value

19-years ($5 \times 47 = 235$ lunation) 'called and known as the Metonic Cycle', possibly existed during Harappa Era, see: http://www.brijvij.com/bbv_Lnr-Tithi_HarrCal..pdf as my interpretation that Harappa/Indus people had a 'Lunar tithi- based' Calendar and *NOT a solar day* Calendar! The 'tithi/phase' duration was 966/965 day or 138Weeks/965. Calendar calculations can be eased using THIS 'tithi/phase' = 19-years/6932 ½ TITHI. My earlier interpretation to the use of 'Twice the METRE as – their Length Unit – Indus Metre' during flourishing days of Indus Civilisation (Mohenjo-Daro) via the Indus Inch be seen at: <http://www.brijvij.com/indusEvidence.doc> are known (as British excavators then) named and my result published in Sir Mortimer Wheeler Commemoration Volume (1984) through Archaeological Survey (Society) of India, New Delhi.

I have demonstrated that my calculations meet the expectations of an astronomer. I have/am in discussion groups of usma@colostate.edu and CALNDR-L@LISTSERV.ECU.EDU since mid-2002. Details of my other calculations can be EXAMINED at: http://brijvij.com/Brij_index_Contributions.doc. It is Time that United Nations took the initiative and 'possibly a bold step' to revoke on Reform of the Gregorian Calendar (simply by shifting July 31st to February 29th) and its use as United Nations Calendar for the World, tied to decimalized time of the HOUR via the Earth as $1/10^5$ of Arc-angle $\pi/180$ (i.e. one degree), at http://www.brijvij.com/bbv_shelving-NMile.pdf .

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– Author