January 08, 2012

Junior Observer

08

Greek Name	Month #	Coptic Name	Gregorian Equivalent
Thoth	1	Thout	September-October
Phaophi	2	Paopi	October-November
Athyr	3	Hathor	November-December
Choiak	4	Koiak	December-January
Tybi	5	Tobi	January-February
Mechir	6	Meshir	February-March
Phamenoth	7	Paremhat	March-April
Pharmouthi	8	Paremoude	April-May
Pachon	9	Pashons	May-June
Payni	10	Paoni	June-July
Epiphi	11	Epip	July-August
Mesore	12	Mesori	August-September
?	13	El Nasii	(Extra 5 or 6 days)

Fast facts

year, defined as the average year interval between vernal equinoxes is 365 days, 5 hours, 49 Catholic countries accepted minutes (365.2424 Universal the Gregorian calendar. days).. This calendar year was the objective of the accepted the Gregorian Gregorian calendar reform, calendar, partially in 1700 which finalised the calendar and fully in 1773. as we use it today.

* Lengthening of the vernal (and the American colonies) equinox year over the last two accepted the Gregorian calmillennia is about 10 seconds endar. (0.0001 universal days per * Eleven days were elimiyear).Variation of this length nated by the British in the next few millennia is Parliament to realign the less than 5 seconds

of the founding of the Egyptian calendar is 4236 the Gregorian calendar. B.C.E.

days, with days added, Jewish Gregorian calendar. Year was 354 days, with days * China accepted the added and early Roman year Gregorian calendar system 304 days, amended in 700 in 1949. C.E. to 355 days.

Julius Caesar was 365 days. Gregorian calendar has Also known as The Julian become misaligned with the calendar.

Caesar changed the Roman in 1582. year to his own Julian calen- * By 4th or 5th millennidar

Gregorian calendar replaced calendar hours ahead of the the Julian calendar, in use astronomer's mean tropical since 45 BC.

* Length of time the Julian calendar will become twelve calendar overestimates our cal- calendar hours ahead of the endar year per year, as deter- mean vernal-equinox year* mined by Pope Gregory was 10 In 1972 the Atomic Time minutes 48 seconds

October 5-14, 1582 Dates world's official scientific Gregory eliminated to realign time standard.

*Length of the tropical his calendar with the solar

* During 1582-1584 most

* Protestant Germany

* In 1752 Great Britain

old Julian calendar with the * The earliest known date Gregorian calendar.

* In 1873 Japan accepted

* In 1917 (and again in * Early Greek year was 354 1940) Russia accepted the

* 1 hour and 20 minutes * The year according to is the length of time the vernal equinox over the * On January 1, 45 B.C.E years since Gregory's reform

um C.E. the Gregorian cal-* On October 15, 1582, the endar will become twelve year.Beyond the 7th millennium C.E. the Gregorian

replaced Earth Time as the

year to his own Julian alendar

Julius Caesar

changed the Roman





long summer vacation. In America they say schools start "in the fall," which means in the autumn when the leaves fall

In Australia, New Zealand and other countries south of the Tropic of Capricorn, the school year begins in late February or early March, after the summer vacation. It is midsummer now in the southern hemisphere, south Sun begins a new cycle of the Zodiac of the Tropic of Capricorn.

As I said earlier, this year is 2012 AD.

BC stands for Before Christ. Jesus Christ was born 46 years after the Julian Calendar was introduced. The Buddha passed away 544 years before the birth of Jesus Christ - 2012 plus 544 Parinirvana.

Buddha passed away. An era is a period of time starting from a special event. Hijiri is the Muslim era. It is counted from the year that Prophet Mohammed migrated from Mecca to Medina. This is the 1432nd year of the Hijiri era.

You would have noticed that some years have the letters BC after them. Julius Caesar introduced a calendar in 46 BC. Your history books give the year that the Buddha passed away as 544 BC and that Mahinda Thera came to Lanka in

is 2556; this number of years will be completed on Vesak Day this year, which is the anniversary of the

The Christian era is calculated from the birth of Jesus Christ, but ferent people for religious purposes or lunar months. the Buddhist era from the day the



calendar.

Julius Ceasar did.

now used world-wide, followed by difother traditional ceremonies. In these

the sun round the planets and the Sun's



Tanuary 1st is the first day of a new year. The first day of the 12th year J in the 21st century. The year is 2012 AD. What do the two letters AD stand for? They stand for two Latin words Anno Domini which means 'in the year of the Lord.' This is the 2012th year since the birth of Jesus Christ

worldwide is called the Gregorian

Calendar, because it was introduced by Pope Gregory XIII in the 16th century. What was in use earlier was the calendar introduced in 46BC by Julius Caesar, the emperor of Rome. The Julian calendar was found to be not quite accurate: so, it was corrected by the Jesuit astronomer Christopher Clarius and Pope Gregory XIII gave his official seal to the new calendar in 1582. So, it is called the Gregorian Calendar.

This is also the beginning of a new school year. But International Schools start their new school year or academic vear in September. Why so late in the vear? To be in line with the schools in England and America, because they follow the same course of studies as those schools in England and America.

In those temparate lands - countries north of the Tropic of Cancer - the The calendar which is now used school year starts in autumn after the 234 BC.

Junior Observer 09



Gregorian calendar

is the calendar that is used into twelve "months". nearly everywhere in the Despite the name these are was named, on February 24 lengths. 1582 via the papal bull "Anno Domini" era.

This era was created in

The Gregorian calendar A Gregorian year is divided

world. A modification of the not synchronised with the Julian calendar, it was first phases of the Moon; the termiproposed by the Calabrian nology derives from the doctor Aloysius Lilius, and Roman calendar that precedwas decreed by Pope ed the Julian calendar. The Gregory XIII, for whom it twelve months are of irregular

A calendar date is fully Inter gravissimas. Its years specified by the year (numare numbered per the per- bered by some scheme beyond ceived birth year of Jesus the scope of the calendar Christ, which is labeled the itself), the month (identified by name or number), and the day of the month (numbered the 6th century by Roman sequentially starting at 1). The monk Dionysius Exiguus. leap years are all years divisi-The Gregorian Calendar ble by 4, with the exception was devised both because that those divisible by 100. the mean year in the Julian but not by 400, are common Calendar was slightly too years. These 366-day years long, causing the vernal add a 29th day to February, equinox to slowly drift which normally has 28 days. backwards in the calendar The intercalary day in a leap year, and because the lunar year is known as a leap day. calendar used to compute Since Roman times 24 the date of Easter had February (bissextile) was

grown conspicuously in counted as the leap day, but CALENDARIVM GREGORIANVM PERPETVVM Orbi Chriftiano vniuerfo à GREGORIO XIII. P. M. propofitum, Anno M. D. LXXXII

02:00 GREGORIVS EPISCOPVS SERVVS SERVORVM DEL AD PERPETYAM REI MEMORIAM.

error as well. The Gregorian nowadays February 29 is days as the basic unit of leap year. time, grouping them into Although the calendar year years of 365 or 366 days.

the cycle consisting of 400 366 days.

This gives an average year length of exactly 365.2425 davs.

solar calendar is an arith- regarded as the leap day in metical calendar. It counts most countries. This year is a

runs from January 1 to The calendar repeats com- December 31, sometimes year pletely every 146.097 days. numbers are based on a different starting point within the vears, of which 303, the "com- calendar. Confusingly, the mon years", have 365 days, term "Anno Domini" is not and 97, the leap years, have specific on this point, and actually refers to a family of year numbering systems with different starting points for the years.

Facts and pix: Internet



You may have heard of the 'Saka Varsha'. Saka also known as Sali west India, now Pakistan. He must

23

30

The exact time of the Sun's entry into Mesha rashi is calculated by astrolo-Vaahana was a king who ruled in north-gers, and the public informed, 13/14 is then our New Year's Day. It is also New have introduced a new calendar, just as Year's Day in the Buddhist countries of S.E. Asia. People in Myanmar, The Saka era began in 78 AD. So this Thailand, Cambodia, Laos, Vietnam, all vear will be Saka Varsha 1934. The celebrate the dawn of a new year on this Saka Varsha is counted from the day the day as do the Buddhists in Bangladesh. The Chinese, wherever they are will which is on April 13/14 in the Gregorian be celebrating the new year. Sometime

There are calendars other than that

between mid January and mid February. The Muslim year doesn't start on a fixed date as the months in the year are

A lunar month is a period from one calendars the year doesn't start on new moon to another new moon; so the January 1st and end on December 31st. day varies. In our traditional calendar All of you know that our own year - too the months are lunar months. Sinhala and Tamil year begins on April That's why Vesak is not on the same day modern calendar. 13/14. It marks the end of one cycle of every year in the Gregorian calendar.

Ancient people were keen observers

entry from Pisces to Aries. Meena to of the movement of sun, moon and Mesha rashi - to start another cycle. stars. They were aware of the days getting shorter and the nights longer, and then gradually daylight continuing for longer hours. As long ago as 2000 BC. the Sumerians in Mesopotamia calculated the new year by the new moon nearest to the equinox.

They would have noted the nights getting shorter and the days longer, day by day. The plants were beginning to put out tender shoots, animals waking up from their winter sleep and wild duck and other birds flying back to their homeland. Then came a day when hours of davlight and darkness were equal or almost equal.

That day was the beginning of a new year; and that day may have been the nearest if not the day of the equinox. when the Sun is directly overhead the equator, which is March 21 in the Gregorian calendar.

In the ancient Roman calendar followed for centuries before the birth of Christ. March was the first month of the year, and the year had only 10 months, until the calendar was revised by Julius Ceasar in 46BC and two months added on the suggestion of the Egyptian astronomer Alexander Sosigenes. So March became the third month. In Iran today, the New Year is celebrated on the day of the equinox March 21. As in ancient Rome, in Iran today, the year starts in March in the

Sumana Saparamadu

<< Back