

# Upper Yarra U3A Astronomy Program

Series of 12 Meetings Schedule, February – June 2016

## Meeting Structure:

\* Start 13:00 Three 20 minutes Session (broadly based as below), each followed by 10 minutes Question Time and Discussions

- Session a: Great Courses Video (followed by Coffee Break)

\* Our current Video Series is called "The History and Nature of our Universe" by Professor Mark Whittle

- Session b: Constellations of the Night Sky

- Session c: Current Phenomena

\* Finish at 14:30

- First Meeting Date: Thursday 11 February
  - a Lecture 13 Cosmic Microwave
  - b URSA MAJOR - The Big Bear
  - c This Week's Sky
- Second Meeting Date: Thursday 25 February
  - a Lecture 14 - The first Million Years
  - b URSA MINOR - The Little Bear
  - c This Week's Sky
- Third Meeting Date: Thursday 10 March
  - a Lecture 15 - Primordial Sounds
  - b PEGASUS - The winged Horse
  - c This Week's Sky
- Fourth Meeting Date: Thursday 24 March
  - a Lecture 16 - Sound as Cosmic Diagnosis
  - b VIRGO - The Virgin
  - c This Week's Sky
- Fifth Meeting Date: Thursday 7 April
  - a Lecture 17 - Seeding Structure
  - b VULPECULA - The Fox
  - c This Week's Sky
- Sixth Meeting Date: Thursday 21 April
  - a Lecture 18 - The Dark Age
  - b TUCANA - The Toucan
  - c This Week's Sky
- Seventh Meeting Date: Thursday 5 May
  - a Lecture 19 - Infant Galaxies
  - b TRIANGULUM - The Triangle
  - c This Week's Sky
- Eighth Meeting Date: Thursday 19 May
  - a Lecture 20 - Galaxy Evolution
  - b TAURUS - The Bull
  - c This Week's Sky
- Ninth Meeting Date: Thursday 28 May
  - a Lecture 21 - Giant Black Holes
  - b SCORPION - The Scorpion
  - c This Week's Sky
- Tenth Meeting Date: Thursday 2 June
  - a Lecture 22 - The Galaxy Web
  - b SAGITTARIUS - the Archer
  - c This Week's Sky
- Eleventh Meeting Date: Thursday 16 June
  - a Lecture 23 - The Atom Factories
  - b SAGITTA - The Arrow
  - c This Week's Sky
- Twelfth Meeting Date: Thursday 30 June
  - a Lecture 24 - Understanding Elements
  - b PISCES AUSTRINIS - Southern Fish
  - c This Week's Sky

The Meeting Place is the CFA Rooms, 37 Yarra St  
Yarra Junction Alfred Klink

## List of Constellations in this Series

URSA MAJOR (The Big Bear), URSA MINOR (The Little Bear), PEGASUS (the Winged Horse), VIRGO (Virgin), VULPECULA (The Fox), TUCANA (Toucan), TRIANGULUM (The Triangle), TAURUS (The Bull), SCORPION (The Scorpion), SAGITTARIUS (The Archer), SAGITTA (The Arrow), PISCES AUSTRINIS (The Southern Fish).

**Eugene Delporte** drew the boundaries of all constellations along vertical and horizontal lines of right ascension and declination; however, he did so in 1930 for the epoch B1875.0, which means that due to precession of the equinoxes, the borders on a modern star map (e.g., for epoch J2000) are already somewhat skewed and no longer perfectly vertical or horizontal. This skew will increase over the years and centuries to come.

"It is up to us to give meaning to the Universe"