

# Upper Yarra U3A Astronomy Program

Series of 12 Meetings Schedule, July – December 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 14 July
  - a Lecture 24 - Understanding Elements
  - b PISCIS AUSTRINUS - Southern Fish
  - c This Week's Sky
- Second Meeting Date: Thursday 28 July
  - a Lecture 25 - The Light Elements
  - b LYNX - a Lynx
  - c This Week's Sky
- Third Meeting Date: Thursday 11 August
  - a Lecture 26 - The Concordance Model
  - b CAMELOPARDALIS - a Giraffe
  - c This Week's Sky
- Fourth Meeting Date: Thursday 25 August
  - a Lecture 27 - Physics at Ultrahigh Temps
  - b AURIGA - the Charioteer
  - c This Week's Sky
- Fifth Meeting Date: Thursday 8 September
  - a Lecture 28 - The Particle Cascade
  - b PERSEUS - Perseus
  - c This Week's Sky
- Sixth Meeting Date: Thursday 22 September
  - a Lecture 29 - Matter and Forces emerge
  - b PISCES - Fishes
  - c This Week's Sky
- Seventh Meeting Date: Thursday 6 October
  - a Lecture 30 - Puzzles remaining
  - b M1 - Crab Nebula
  - c This Week's Sky
- Eighth Meeting Date: Thursday 20 October
  - a Lecture 31 - Is Inflation the Solution?
  - b M2 - Glob Cluster in Aquarius
  - c This Week's Sky
- Ninth Meeting Date: Thursday 3 November
  - a Lecture 32 - The Quantum Origin
  - b M3 - Glob Cluster in Canes Venatici
  - c This Week's Sky
- Tenth Meeting Date: Thursday 17 November
  - a Lecture 33 - Stunning Creativity
  - b M4 - Glob Cluster in Scorpius
  - c This Week's Sky
- Eleventh Meeting Date: Thursday 1 December
  - a Lecture 34 - Anthropic Argument
  - b M5 - Glob Cluster in Serpens
  - c This Week's Sky
- Twelfth Meeting Date Thursday 15 December
  - A Christmas Break-up at **Kurth Kiln**
  - a Lecture 35 - What's Next?

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

## List of Constellations in this Series

PISCIS AUSTRINUS (Southern Fish), LYNX (a Lynx), CAMELOPARDALIS (a Giraffe), AURIGA (the Charioteer), PERSEUS (the Perseus), PISCES (the Fishes), Messier 1 (the Crab Nebula), Messier 2 (Globular Cluster), Messier 3 (Globular Cluster), Messier 4 (Globular Cluster), Messier 5 (Globular Cluster).

**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"  
Gotthold Ephraim Lessing