

# Upper Yarra U3A Astronomy Program 2018

Series of 12 Meetings, Schedule February to July

## 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)  
We continue the Series by Professor Alex Filippenko, called "Black Holes Explained" and then continue with "My Favourite Universe", a 12 Course Lecture by Professor Neil deGrasse Tyson, on 29 March.
- Session b: Features of the Night Sky
- Session c: This Week's Sky / Current Phenomena
- \* Finish at 14:30

- First Meeting Date Thursday 15 February
  - a Lecture 10 - Hawking Radiation
  - b Messier 28 Globular Cluster Sagittarius
  - c This Week's Sky
- 2<sup>nd</sup> Meeting Date: Thursday 1 March
  - a Lecture 11 - The Holographic Universe
  - b Messier 29 Open Cluster in Cygnus
  - c This Week's Sky
- 3<sup>rd</sup> Meeting Date: Thursday 15 March
  - a Lecture 12 - The large Hadron Collider
  - b Messier 30 Open Cluster in Capricornus
  - c This Week's Sky
- 4<sup>th</sup> Meeting Date: Thursday 29 March
  - a Lecture 1 - On Being Round
  - b Messier 32 Dwarf Galaxy in Andromeda
  - c This Week's Sky
- 5<sup>th</sup> Meeting Date: Thursday 12 April
  - a Lecture 2 - On Being Rarefied
  - b Messier 33, Galaxy in Triangulum
  - c This Week's Sky
- 6<sup>th</sup> Meeting Date: Thursday 26 April
  - a Lecture 3 - On Being Dense
  - b Messier 34, Open Cluster in Perseus
  - c This Week's Sky
- 7<sup>th</sup> Meeting Date: Thursday 10 May
  - a Lecture 4 - Death by Black Holes
  - b Messier 35 Open Cluster in Gemini
  - c This Week's Sky
- 8<sup>th</sup> Meeting Date: Thursday 24 May
  - a Lecture 5 - End of the World
  - b Messier 36, Open Cluster in Auriga
  - c This Week's Sky
- 9<sup>th</sup> Meeting Date: Thursday 7 June
  - a Lecture 6 - Coming Attractions
  - b Messier 37 Open Cluster in Auriga
  - c This Week's Sky
- 10<sup>st</sup> Meeting Date: Thursday 21<sup>st</sup> June
  - a Lecture 7 - Onward to the Edge
  - b Messier 38, Open Cluster in Auriga
  - c This Week's Sky
- 11<sup>th</sup> Meeting Date: Thursday 5 July
  - a Lecture 8 - In Defence of the Big Bang
  - b Messier 39, Open Cluster in Cygnus
  - c This Week's Sky
- 12<sup>th</sup> Meeting Date: Thursday 19 July
  - a Lecture 9 - The Greatest Story ever told
  - b Messier 40, Double Star in Ursa Major
  - c This Week's Sky

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

Alfred Klink

## List of Messier Objects in this Series

M28 - Open Cluster in Sagittarius; M29, M39 - Globular Clusters in Cygnus; M30 - Open Cluster in Capricornus; M32 - Dwarf Galaxy in Andromeda; M33 Galaxy in Triangulum; M34 - Open Cluster in Perseus; M35 - Open Cluster in Gemini; M36, M37, M38 - Open Clusters in Auriga; M40 - Double Star in Ursa Major.

Messier objects are a set of 110 astronomical objects catalogued by the French astronomer Charles Messier in his "*Catalogue des Nébuleuses et des Amas d'Étoiles*" ("Catalogue of Nebulae and Star Clusters").

A preliminary version first appeared in Memoirs of the French Academy of Sciences in 1771 and the last item was added in 1966 by Kenneth Glynn Jones, based on Messier's observations.

"It is up to us to give meaning to the Universe"  
Gotthold Ephraim Lessing