

# MCNAMARA-SAUNDERS ASTRONOMICAL TEACHING TELESCOPE

An astronomical teaching/learning facility for Year 9 to 12 public school students from the ACT region.

**MSATT** will be a facility for students to undertake extended student-centred projects in astronomy and astrophysics.

**MSATT** is a cooperative project between private donors, the ACT Education Directorate, and the Australian National University. It will be built at Mount Stromlo Observatory.



ANTICIPATED COMPLETION LATE-2016



## INSTRUMENTATION

<b>Main telescope:</b>	300 mm Meade LX200 ACF mounted on Paramount ME.
<b>Co-mounted instruments:</b>	Coronado H $\alpha$ solar telescope and Celestron 80 mm spotting scope.
<b>Supplementary telescopes:</b>	Celestron 11, 200 mm Dobsonian, 75mm f15 refractor.
<b>Imaging:</b>	SBig ST 10XME CCD camera.

Students interested in undertaking projects should contact: Geoff McNamara  
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**ACE SCIENCE**  
INSPIRING MINDS



Australian  
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## POTENTIAL INVESTIGATIONS

Initially, only a limited number of students will be able to use **MSATT** for projects. While the full range of astronomical experiments will take time to evolve, examples of potential investigations include the following:

- *Solar imaging*
- *Monitoring solar prominences*
- *Sunspot monitoring*
- *Optical & radio observations of the Sun*
- *Measuring the Sun's lifetime*
- *Lunar photometry*
- *Lunar eclipses*
- *Lunar morphology*
- *Lunar occultations*
- *Measuring Jupiter's mass*
- *Venus' dichotomy*
- *Rotation rates of asteroids*
- *Comets*
- *Planetary atmospheres*
- *Jupiter's current behaviour*
- *Mars seasonal variations*
- *Deep sky under light-polluted skies*
- *Astronomical imaging*
- *Morphology of deep-sky objects*
- *Variable star monitoring*
- *Supernovae*
- *Spectroscopic binaries*
- *Cataclysmic variables*
- *Eclipsing binaries*
- *Stellar spectral class*
- *Stellar composition*
- *Measuring the speed of light*