The Space to Grow ARC Linkage Project aims to both engage senior secondary students in real science and support teachers in implementing science. The project is being conducted through Macquarie and Charles Sturt Universities with the support of partners including CEO Parramatta and Bathurst, DET Western Region and Las Cumbres Observatory Global Telescope Network. The project team draws together astronomers, educational researchers and technology specialists.

The project is being implemented in Year 10 science and Year 11 and 12 physics classes in 37 schools over a three-year period. Students will have access to the Faulkes Telescopes (two 2-metre, robotically operated, research-grade telescopes) to conduct real science investigations and emulate the process a real astronomer follows in terms of applying for telescope time, obtaining images and analysing the scientific data.

The purpose of this paper is to outline the Space to Grow Project. The student activities, interactive teacher resources, social networking site, website and embedded professional development program developed for the project will be shared. Furthermore, the multiple-baseline, multiple-probe research design employed to investigate the impact of the project on students and teachers will be described. Finally, the pre-occasion results from the first data collection period will be presented.

**Equipment needed:** Data projector, screen and Internet connection.