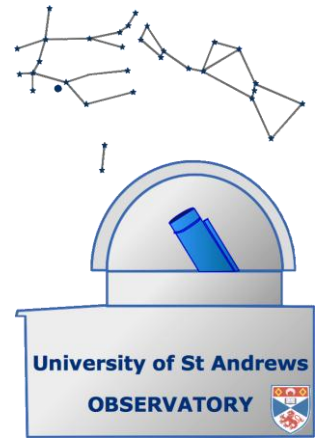




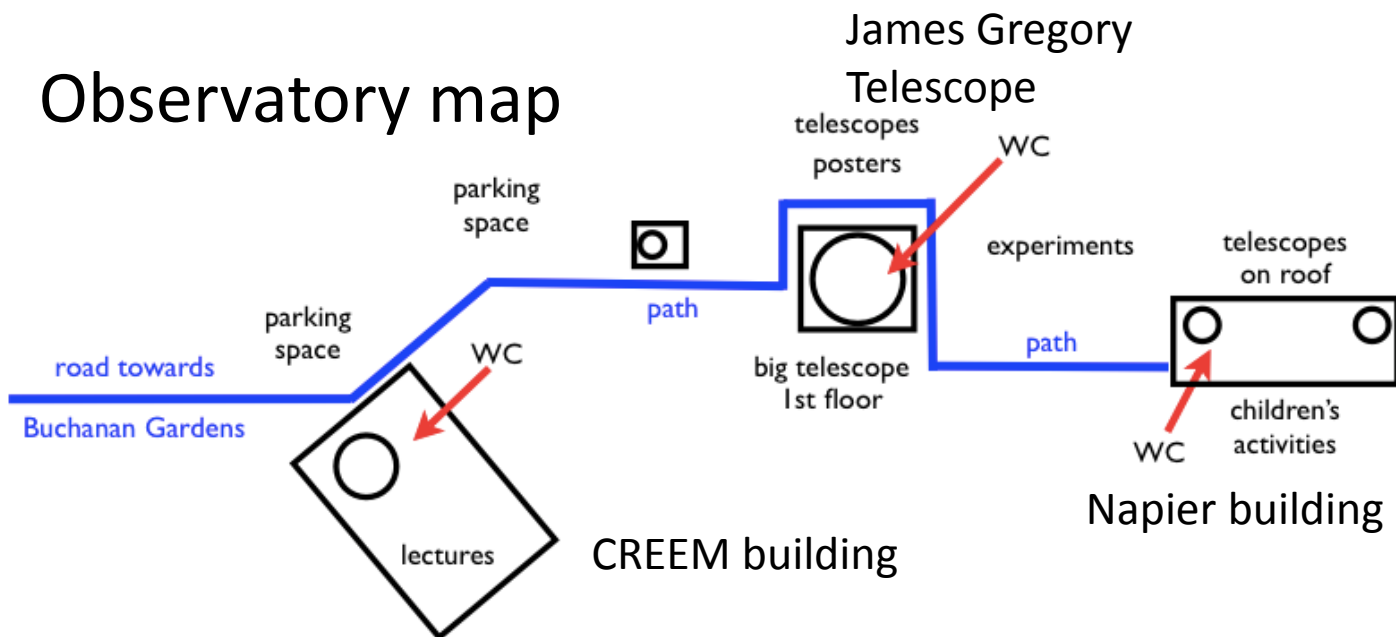
Open Night

University Observatory
St Andrews

26 November 2016, 6 – 9 PM



Observatory map



- Please stay on the paths and walk carefully in the darkness.
- The grass can be wet and muddy. If lost, aim for the light or the domes.
- Parents are responsible for their children at all times.
- Parking is limited, please consider leaving your car in town.

<http://observatory.wp.st-andrews.ac.uk>



Star Gazing

6 – 9 PM



See Scotland's largest telescope in action! Observe Jupiter, star clusters, nebulae and galaxies. Ask an astronomer about the cosmos. All **telescopes** are indicated on the map. Star gazing weather permitting.



Ask an Astronomer

6 – 9 PM

- What happens when you fall into a black hole?
- Can you live in space?
- Should I be worried about gravitational waves?

Ask your space and astronomy questions at our booth in **the CREEM building!**



Children's Activities

6 – 9 PM



Make you own habitable planet

Plasticine planets

Books

Children's Activities take place
in the **Napier Lecture Room**,
all ages welcome!

Planet models

Land on a comet

Colouring sheets

Day-and-Night

Additional Workshops (these take about 30 min):

From 6:30 *Fold and launch a rocket!*

(ages 4 – 15, parental supervision required!)

From 7:30 *Build a CD-spectroscope!*

(ages 8 and up, adults welcome too!)

Limited space!

Sign-up for workshops is required, you can
find the booking form in the **Napier building**.

Meteorite viewing (and other demonstrations)

6 – 9 PM



Find us in **the Napier building!**



Public Talks

6 – 9 PM



Public talks for a general audience, by astronomers of the University of St Andrews. These take place in the **lecture hall of the CREEM building**

6:10 Wonderful Auroras: on Earth and beyond

— *What causes auroras? How diverse can they be? Are there auroras on alien worlds? How can we see invisible auroras, and*

6:30 *what can we learn from them?*

Dr Irena Vorgul

Star and Planet Formation

Observed new-born stars are surrounded by discs of rotating gas and dust. These are the places in the Universe where new planets can form, that can possibly host life in the future. A description of how astronomers and astrophysicists work hand in hand to better understand these processes.

6:50

—

7:10

Dr Peter Woitke

7:30 Extrasolar Planets: Gemstone Clouds, Lightning and the meaning for life

— *Exoplanets are breathtaking: their gemstone clouds glitter in the light of their mother star, they have rumbling thunderclouds, and life*

7:50 *unknown to us may emerge on some of them. A small glimpse into this fascinating area of research.*

Dr Christiane Helling



Island Universes

A brief introduction to the nature of the galaxies populating our Local Universe.

8:10

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8:30

Dr Milena Pawlik