

# Bayfordbury Open Evening

15th February 2019

5pm-9pm

## Talks

Talks are located in the lecture theatre at the top of the stairs. There is no need to book a place; just turn up and take a seat 5 minutes before the talk is due to start. Each talk will last approximately 40 minutes.

### 18:00 "Discovering planets orbiting our Sun's nearest neighbours" Prof. Hugh Jones

UH astronomers played a leading role in the recent well publicised discovery of planets orbiting the Sun's nearest neighbours, Proxima Centauri and Barnard's star. Come and hear the inside story from one of the core members of the team, and find out the latest on efforts to discover more alien worlds in our backyard.

### 19:00 "Five Photons: Remarkable Journeys of Light Across Space and Time" Dr Jim Geach

Hear the tales of five fascinating astrophysical processes through the journeys of light across space and time. They are tales of quantum physics and general relativity, stars and black holes, dark matter and dark energy.

### 20:00 "Searching for black holes" Prof. Martin Hardcastle

Everyone has heard of black holes, but do they really exist, and how do astronomers find them? The centres of distant galaxies turn out to be the best places to look.

## Planetarium Shows

Your booking confirmation email will tell you which planetarium show to go to. The outdoor inflatable is in the car park outside (it's hard to miss!) and the indoor planetarium is upstairs at the end of the corridor.

Please arrive 5 minutes early and queue outside. If you miss your show, we cannot guarantee you a place in another.

## Refreshments and toilets

Refreshments will be available in the downstairs cafe by the main reception. Cash only. Please do not take food or drink into the indoor planetarium or telescope domes.

The disabled and men's toilets are on the ground floor and the women's are at the top of the stairs. There is a disabled toilet at the telescopes.

## Telescopes & radio show

The telescopes are a short walk from the main building on a paved & level path. Exit the doors at main reception, turn left and follow the lit path. Please stay on the path.

Once you are at the telescopes, you may enter any dome that has its door open to view and, weather permitting, look through our telescopes.

There will also be short (15 minute) talks about radio astronomy every 5 to 10 minutes throughout the evening in the circular brick building near the telescopes.



## Activities & demonstrations

Follow the upstairs corridor to find a selection of activities and demonstrations led by astrophysics students and members of the Hertford Astronomy Group. Including:

### **Make-a-comet**

See how we can build comets here on Earth

### **Infrared camera**

See how the world looks through infrared eyes

### **Exoplanet transits**

Recreate the effect that astrophysicists use to discover new planets

### **Spectroscopy**

Find out how astronomers use light to unravel the secrets of our universe

**...and much more!**