

SCIENCE WORKSHOPS IN GERMAN

FRIDAY
22 SEPTEMBER 2017
1.30 – 5 PM



Dear Students,

**How can bacteria
neutralise pollution?**

**How do we make our
digital information
hacker-proof?**

**Which genes determine
a horse's colour?**

**Step into a scientist's
shoes and find out.**

**SPEAK GERMAN
+ STUDY SCIENCE**

PROGRAM

1.45 – 2.00 pm

Welcome by the German Consul
General, Lothar Freischlader

2.00 – 4.15 pm

Workshops with German
speaking scientists

4.30 – 5.00 pm

Presentation on studying
in Germany by the German
Academic Exchange Service
(DAAD)

**Parents are welcome to
join in for the last part
commencing at 4.30pm.**

Working in small groups you will explore the work of three scientists.

The sheep has a big bottom. Livestock breeding and genetics

Dr Sonja Dominik (CSIRO Agriculture and Food)

Nowadays farmers need to continually select their best animals for breeding. But how do we know which animals have the best genes? In this workshop, you will find out how research into animal breeding locates the particular genes needed for the best livestock. You will have the chance to explore things like the genetics that determine a horse's colour and the size of a sheep's bum.

GlitterBugs: How clean are your hands?

Dr Marie Greyer (University of Melbourne)

You may not be aware but many microscopic bugs and bacteria live on our skin and within our bodies. Some are beneficial to us whilst others can cause harm. The 'GlitterBug' experiment highlights the abundance of bugs that live in our environment, such as those that reside on our hands.

Cyber security: How do we make digital information hacker-proof?

Dr Max Ott (Data 61)

Every second of the day sensitive information, from credit card numbers to health records to military secrets, is transmitted online. Thanks to encryption it can all be done securely. Together with Dr Max Ott you will create an encryption algorithm and find out how it transforms digital information.

Bonus Workshop: LEGO®-Robots Space-Mission

With Kaja Eling (Goethe-Institut Australien)

The Goethe-Institut's new LEGO®-Robots go on a mission to Mars. Make sure your Robot doesn't get lost in space!



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