

# SCIENCE WORKSHOPS IN GERMAN

FRIDAY  
24 NOVEMBER 2017  
1.30 PM – 4.15 PM



Dear Students,

**Can we use Bacteria to clean up contaminated sites? How can we identify a whale through DNA? How can we use virtual reality in Health and Safety training? Step into a scientist's shoes and find out.**

**SPEAK GERMAN  
+ STUDY SCIENCE**

## PROGRAM

**1.45 pm – 2.00 pm**

Welcome by  
Mr Torsten Ketelsen,  
Honorary Consul of the  
Federal Republic of Germany  
in Western Australia

**2.00 pm – 3.40 pm**

Workshops with German  
speaking scientists

**4.00 pm – 4.15 pm**

Presentation on  
studying in Germany

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

### **Biodegradation of Contaminated Sites**

**Melanie Bruckberger (CSIRO and the University of Western Australia)**

Bacteria can do us harm but they can also do all sorts of good things, such as cleaning up contaminated industrial sites. In this workshop you will delve into the world of microorganisms and analyse different types of bacteria. You will gain an insight into the structure of bacteria.

### **Wildlife DNA Forensics**

**Dr Andrea Ducki and Dr Thea Linke (Murdoch University)**

All living organisms use the same universal code in their genetic make-up to grow, function and reproduce. This information is stored in the form of a bio-molecule called DNA. The unique arrangement of this information identifies all species (and reveals how close we are related to each other). You will be able to isolate and even touch this amazing DNA molecule, learn how to read its secret code and help wildlife forensics to identify a species smuggled into Australia.

### **Health and Safety Training using Virtual Reality**

**Dr Torsten Reiners (Curtin University)**

You probably know about 3D simulations from computer games, but they are also used to create training environments. Dr Torsten Reiners will use 3D spaces in his workshop to help you reflect on day to day Health and Safety measures and to develop your own virtual training platform. And you'll get to see a VR city from above.

### **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!