

# Science Week

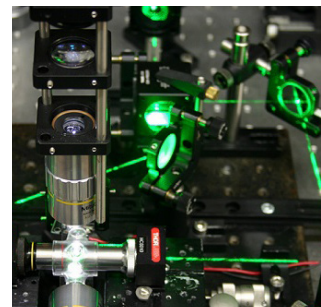
## *Cumberland Library Services Talks for Science Week*

### MAKING LIGHT WORK

Guildford Library, Thursday 9 August - 6pm

Did you know that light can be used to pick up and hold a single blood cell? Physicist **Prof. David McGloin** explains how light can be used to create tweezers and tractor beams that can probe the microscopic world, and in doing so help to study a range of problems such as understanding the mechanisms of disease and how we can probe the fundamental properties of light itself.

**David McGloin** is a Professor of Optical Physics in the School of Electrical and Data Engineering at UTS. He works on the development of optical tools to explore questions related to how aerosols interact with the atmosphere and ways to examine how cancerous cells differ from healthy cells.



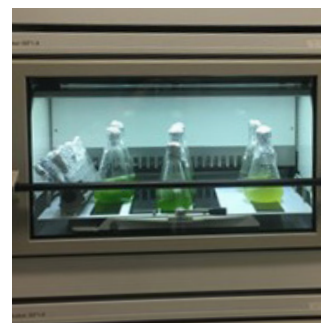
### ALGAE WILL MAKE THE MEDICINE OF THE FUTURE

Regents Park Library, Monday 13 August - 5pm

Did you realize that single celled algae, or 'pond scum', can actually have wonderful applications in science? For example, it can be used to make anything from renewable fuels to anti-cancer products. Join UTS PhD candidate **Navpreet Kaur Walia** as she outlines some of the possible uses and applications of algae for pharmaceuticals.

This free event is part of Inspiring Australia's *Talking Science* library speaker series.

**Navpreet Kaur Walia** is doing her PhD at the Climate change Cluster at UTS, looking at biotechnological uses for algae.



### FROM EMPIRICAL MEDICINE TO EXPERIMENTAL MEDICINE

Merrylands Library, Wednesday 15 August - 6pm

There is an advanced health care system based on modern science and technology in Australia. Do we still need alternative and complementary medicine? **Margaret Wu** speaks about how traditional Chinese medicine developing from empirical medicine to experimental medicine and how Chinese medicine benefits our health.

**Xiaoqin (Margaret) Wu** is a PhD candidate in the School of Life Sciences (UTS) and used to be an oncologist in Beijing for 12 years. She is a registered acupuncture practitioner of 25 years. Margaret is also a qualified Chinese medicine herbalist. She is registered with the Australian Health Practitioner Regulation Agency and the Chinese Medicine Board of Australia since 2012. She has expertise in the clinical intervention study and is conducting a research project on acupuncture.



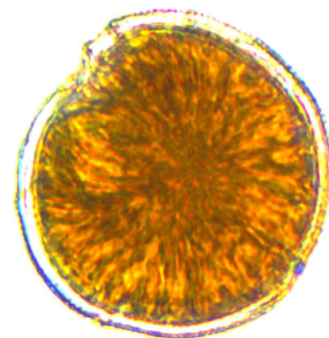
### GETTING FISHY IN A WARMER WORLD

Wentworthville Library, Thursday 16 August - 4pm

Join UTS PhD candidate **Ellery Johnson** for a fascinating discussion about what changing marine environments mean for fish. First, we'll look at why there is more ciguatera fish poisoning and how fish become contaminated through algae. Then we'll consider how carbon carried by rivers as they flow to the sea impacts on estuary marine life?

This free event is part of Inspiring Australia's *Talking Science* library speaker series.

**Ellery Johnson** is a PhD Candidate at the Freshwater and Estuarine Research Group at the University of Technology Sydney. He works on understanding the link between terrestrial carbon, freshwater inflows and secondary production in our estuaries.



Bookings essential for each event - Visit [bit.ly/2uhD5Fs](http://bit.ly/2uhD5Fs) or phone 8757 9065.

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Cumberland Council Sydney