



Project description

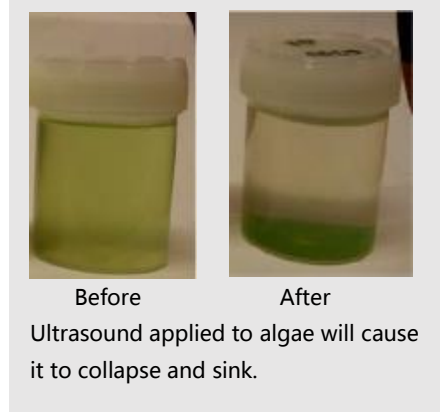
Blue-green algae (cyanobacteria) is a nuisance in water supplies around the world. In extreme blooms, the water supply to communities becomes toxic and is shutdown. The Acoustics, Vibration, and Control research group, in conjunction with 5 Australian water utilities, have developed technology to control blue-green algae using ultrasound. This project involves continuing the R&D of the technology by optimisation conditions, field trials, and fundamental studies in cavitation.

Primary aim

The primary aim is to conduct further research and development of ultrasound technology that could be used by water utilities to control blue-green algae, and prove that the technology works in field trials.

Secondary aim

The secondary aim is to better understand the response of algae when sonicated with ultrasound. The long-term goal is to commercialise the technology.



Student attributes

The student should have background knowledge in acoustics. Although the application of the technology is in microbiology, knowledge in this domain is not required to undertake the project and will be gained throughout the project.

For further enquiries

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