

# CENTRE FOR ANTHROPOGENIC POLLUTION IMPACT AND MANAGEMENT (CAPIM)

Globally, pollution is widespread and a substantial problem that compromises human and environmental health as well as the ecosystem services we rely on for clean air and water, agriculture, and recreation.

Pollution is responsible for 16% of all global deaths annually<sup>1</sup>. That is, more deaths than tobacco smoking and nearly 15 times more deaths than war and all violence combined. In Australia, it is estimated we have over 160,000 contaminated sites, containing about 75,000 different chemicals, with clean-up costs of approximately \$160 billion<sup>2</sup>.

Our pollution problem is substantial, and we need safe, effective and evidence-based approaches to assess and manage it. Government and industry need information and solutions they can rely on but do not necessarily have the internal capacity for the research and development required.

## What can CAPIM offer you?

- Client-focused problem solving
- World-leading multidisciplinary research team and excellent research facilities
- Focused on solving industry issues
- Collaborative, co-design and multi-discipline approach
- Pragmatic and flexible approach when working with partners
- Appropriate intellectual property and confidentiality arrangements
- Scientific and evidence-based solutions

## Technical expertise and skills

- Human health and environmental risk assessment
- (Eco)toxicology including humans, vertebrates, invertebrates, plants and microbes
- Exposure science
- Environmental and analytical chemistry
- Environmental forensics
- Modelling and chemical fate, behaviour and transport
- Decision making and science communication
- Engineering and remediation

## Who are we?

The Centre for Anthropogenic Pollution Impact and Management (CAPIM) is a multidisciplinary pollution research centre led the Director, Associate Professor Suzie Reichman. Our multidisciplinary research concentrates on:

- Identification of pollution in the environment – water, soil, air and waste,
- Traditional pollutants, emerging contaminants and nonchemical pollutants, such as light and noise,
- Impact assessments and management strategies for human health and ecological sustainability.

Our research provides evidence-based outcomes that are used by government, industry and the community to determine risks, make decisions and more safely manage polluted environments.

CAPIM is located at the School of BioSciences with members across the Faculty of Science and University of Melbourne. Our research is supported by state-of-the-art facilities and infrastructure. We look forward to the opportunity to discuss your pollution problems and collaborate with you on solving them.

<sup>1</sup> Landrigan P.J. et al., 2017. The Lancet Commission on Pollution and Health. The Lancet, 19 October 2017

<sup>2</sup> Fergusson, L., 2017. Anthrosols and technosols: the anthropogenic signature of contaminated soils and sediments in Australia. Water Air and Soil Pollution 28:269

## How can we partner with you?

### We deliver science for

- Development and implementation of policy and regulation
- Regulatory decision making
- Contaminated site assessments and audits
- Pollution impact risk assessment and management
- Informing sustainable and safe practices
- Contaminated site clean-up and remediation
- Support for adoption of novel and innovative technologies and approaches
- Commercializing novel pollution technologies
- New patents

### Consulting advice

- Monitoring the current research literature and future trends
- Provide problem scoping and solution services and expertise
- Current and emerging technology evaluation
- Sharing of research equipment and facilities
- Review and implications of government policy

### Contract Research or Research Collaboration Projects

- Contracted research
- Collaborative research projects – potential joint projects working with your team and researchers to scope and develop solutions to your challenges
- Opportunities to leverage joint funding, CRC-P Linkage system and R&D Tax credit
- We can provide either individuals or teams of researchers to develop solutions to your challenges
- Multidisciplinary teams inside Faculty and University

### Professional training of staff and students

- Student or staff placement working in your facilities or university
- Graduate student interns working on your problems
- PhD student intern placements working in your company
- Postdoctoral researcher placement in your organisation for 1 to 3 years
- Short courses delivered in partnership with industry
- Courses customised to your business needs

## CONTACT US

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