## **Special Lecture**

## "Lessons Learnt with Coordination Cages and Lanthanide Complexes: Decoding Host-Guest Chemistry for Catalysis and Analyte Detection"

Date: May 23, 2025 Time: 13:30 - 14:30 Venue: Meeting Room in Research Innovation Center (121 Building) Speaker: Prof. Kellie Tuck (School of Chemistry, Monash University)



Kellie Tuck received her PhD from the University of Adelaide, and after postdoctoral positions at the University of South Australia and the University of Cambridge she was appointed to her independent career at Monash University in the School of Chemistry in late 2004. In 2023 she was promoted to full professor. Her group's research program is in the broad areas of medicinal chemistry, supramolecular chemistry and the development of new sustainable surfactants. More specifically, she has been researching the use of lanthanide-based complexes for the detection of environmentally and biologically relevant species,

and recently has investigated the host-guest chemistry of coordination cages for their capability to detect and detoxify toxic organophosphorus compounds. She collaborates widely with academics from within Monash, Australia and also overseas as well as a number of industry partners and government organisations. She has published more than 100 papers and graduated more than 27 PhD students.

Kellie has been a member of the Royal Australian Chemical Institute since 1995 and the Royal Society of Chemistry since 2007. She is currently Chair of the RACI Supramolecular Division. In the School of Chemistry she teaches organic chemistry across all undergraduate levels. Her roles have included 3rd year level coordinator from 2012 to 2014, 2nd year level in 2017/2018 the, and holding the position of Associate Head (Postgraduate) from 2014-2016 and from 2019-2022 Associate Head (Education). She is currently the Associate Head (International Affairs) and sits on Academic Board. In 2025 she joined the advisory board of OPCW (Organisation for the Prohibition of Chemical Weapons) Education and Outreach.

She has received the following awards; Exceptional Service to the Faculty of Science, Monash University, 2021, Faculty of Science Excellence in Postgraduate Research Supervision Award, 2018, Vice-Chancellor Teaching Award, 2011, Dean's Excellence in Teaching Award, 2009, RACI Organic Athel Beckwith Lectureship Award, 2006.