

Citation for Emeritus Professor Stephen Allan Glover

Professor Stephen Allan Glover is awarded Emeritus Professor in recognition of his outstanding contribution to the field of organic chemistry with his discovery of a new class of amides (anomeric amides) and their synthesis and crystal structures, a new chemical reaction (the HERON reaction), the mutagenic and DNA-damaging properties of *N*-acyloxy-*N*-alkoxyamides, and the theoretical properties of various intermediates including free radicals and nitrenium ions. It is also in recognition of his stellar career as an award-winning academic, educating and nurturing many students and early career researchers.

Stephen Allan Glover joined UNE in October 1985 as a lecturer in chemistry, having obtained his PhD at the University of Port Elizabeth in South Africa in organic chemistry in 1976, followed by a postdoctoral fellowship at the Imperial College, London, with Nobel Laureate Sir Derek Barton FRS between May 1977 and July 1978. After working as an academic at the University of Port Elizabeth in South Africa for six years, Dr Glover came to the Australian National University as a Research Fellow in 1984. A year later in 1985, he started his long career at UNE where significant discoveries in organic chemistry were made, putting UNE well and truly on the world chemistry map.

He developed competitive research programs encompassing physical, biological, synthetic and computational organic chemistry spanning ground-breaking amide structural chemistry, novel amide functionalisation and reactivity, including biological activity and quantitative structure-activity relationships (QSAR) of new, unusual electrophilic amide derivatives. For instance, the new class of amides, which Professor Glover named as 'Anomeric Amides', is now colloquial vernacular in organic chemistry and appears as such in numerous publications and a recent international book on stereochemistry. Likewise, the HERON Reaction is one of only 5 Australian discovered reactions listed in the Merck-Royal Society of Chemistry's "Name Reaction Index".

Professor Glover's research findings have become the platforms for new discoveries throughout the world. For instance, the HERON reaction is front and central to a 2021 significant publication in *Nature* (<https://doi.org/10.1038/s41586-021-03448-9>) and in the *Journal of the American Chemical Society* (<https://doi.org/10.1021/jacs.1c09779>).

Professor Glover has published 104 publications including 99 refereed journal articles and 4 extensive book chapters. Retirement from UNE has not stopped Professor Glover from active research. Professor Glover still collaborates with world-leading scientists across the globe and continues to make significant contributions to organic chemistry research. In fact, since retirement from UNE in 2013, he has published 15 journal articles, reviews and book chapters under the UNE banner. Professor Stephen Glover's long-term, sustained significant contribution to organic chemistry research makes him a highly deserving recipient of Emeritus Professor status.