

**CITATION – Professor Susan von Caemmerer**, Research School of Biology, ANU College of Medicine, Biology & Environment

The Peter Baume Award is the University's most prestigious award. It recognises eminent achievement and merit of the highest order.

Professor von Caemmerer has a distinguished career researching photosynthesis at ANU. She has achieved international acclaim for her mathematical representation of this important fundamental biological process. Photosynthesis is a complex process that involves many enzymes during the capture of sunlight and conversion of this energy into sugars. The process was distilled into a few elegant equations that resulted in a model that has been extensively tested and utilised. She genetically engineered plants to demonstrate the validity of her models at representing the underlying biochemistry. The success of this approach is clear as her published work has been cited more than 10,000 times and has been recognised by election to both the Australian Academy of Sciences and the German Leopoldina academy. In addition to her high impact research, she has served ANU on the Major Equipment Committee, the international community through journal editorial boards and organising international scientific meetings.