

**Dr Patrick G. Hartley**

Research Director, Oil Gas & Fuels  
CSIRO Energy Flagship

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Patrick Hartley is currently the Research Director of the Oil, Gas & Fuels program at the CSIRO, Australia's national research agency. This program comprises 85 research staff and students plus associated research infrastructure with a skills base that ranges from fundamental geoscience through to process systems engineering. The program works with industry on applied research projects which focus on enhancing the competitiveness and productivity of Australia's petroleum resources.

Patrick completed his PhD at Imperial College, London in 1994. His thesis focussed on interfacial interactions in biological systems. He then received a research fellowship from the Royal Society UK, which allowed him to travel to the University of Melbourne, Australia to work in the group of Professor Tom Healy in the field of Atomic Force Microscopy. Patrick joined CSIRO in Melbourne in 1998 as a research scientist within the biomaterials program, and subsequently led research teams working collaboratively with both large multinational corporations and local SME's developing new technologies for drug delivery, energy storage, water treatment and petrochemical recovery. This work has been underpinned by fundamental scientific study of the interplay between nanostructure & function in soft matter systems, and has involved the application of state of the art characterization techniques, such as synchrotron X-ray and Neutron scattering/reflectivity. Patrick has occupied a number of senior research leadership positions within CSIRO since 2007, and he was President of the Australian Colloid and Interface Society 2014-2015.

### Brief Career History:

2014	Research Director, Oil Gas & Fuels, CSIRO Energy Flagship
2013	Australian Institute of Company Directors (Graduate)
2011-2014	Research Theme Leader CSIRO Energy Flagship
2007-	Associate Professor (Adjunct), Faculty of Life and Social Sciences, Swinburne University of Technology, Melbourne
2007-2011	Research Program Leader, Supramolecular Materials, CSIRO Molecular & Health Technologies
2000-2007	Project Leader, Self Assembled Biomaterials, CSIRO Molecular & Health Technologies
1998-2000	Research Scientist, CSIRO Molecular Science, Clayton, Victoria
1995-1998	Research Fellow, Advanced Mineral Products Special Research Centre, University of Melbourne, Victoria, Australia
1994-1995	Royal Society Postdoctoral Research Fellow School of Chemistry, University of Melbourne, Victoria, Australia
1993-1994	Postdoctoral Researcher Downhole Sensing. Schlumberger Cambridge Research Ltd & Imperial College London, UK.
1990-1993	PhD & Diploma of Imperial College (DIC) Department of Chemical Engineering and Chemical Technology, Imperial College of Science, Technology and Medicine, UK
1987-1990	Development Manager Biolite Ltd., Centre for Biotechnology Imperial College of Science and Technology, London, UK
1984-1987	Bsc. (Hons) Microbiology & Microbial Technology University of Warwick, Coventry, UK

### Recent Awards & Research Community Positions

- President, Australasian Colloid and Interface Society Ltd. (2013-2015)
- CSIRO Medal for Business Excellence (2009) CSIRO-Petronas (Malaysia) engagement team
- Grimwade Prize in Industrial Chemistry, University of Melbourne, (2004)
- CSIRO Medal 'High Frequency Supercapacitors Project' (2004)
- Royal Society (UK) postdoctoral fellowship award (1994)
- Chair, 18th International Symposium on Surfactants in Solution, Melbourne (2010)
- Chair, Colloids and Surface Chemistry Division of the Royal Australian Chemical Institute (RACI) (2005-2007)
- Chair, Australian Colloid and Interfaces Symposium, Sydney, Feb 2005