

CURRICULUM VITAE

William E. Price
Head of School
Department of Chemistry
University of Wollongong
NSW 2522

Personal Details:

Name: William Price
DOB: 26th September 1959
Nationality: Australian
Marital Status: Married, 5 children.
Tel: 02 42 213 509 (W); 0401 64 3937 (Mob);
Email: wprice@uow.edu.au.

Summary

I have substantial experience of leadership roles within the University sector. In particular I believe my main strengths are:

- 20 years experience within the Australian Higher Education System
- High quality research program with significant and excellent outcomes in terms of publications/grants
- Experience in working with large research groups and collaboratively with a number of external industrial partners
- Broad research experience encompassing physical, chemical sciences, food sciences and aspects of engineering
- Experience in working in industry (Abbott Pharmaceuticals; Unilever and British Petroleum Exploration).
- Extensive experience in University management including experience at Dean's level (Financial management; strategic planning in Teaching & Research)
- Extensive experience of curriculum development
- Highly developed planning, organisational and management skills
- Highly motivated, enthusiastic and self-driven
- Good listener and collaborative team player yet able to take tough decisions as a strong leader
- Very good interpersonal skills

Current Positions:

Head of School of Chemistry, University of Wollongong.

- Appointed January 2001
- Approximately 55 staff members
- Reports to Dean of Faculty

Qualifications:

BSc (Hons) Imperial College, University of London, 1982.

DIC (Diploma of Imperial College), 1985.

PhD Imperial College, University of London, 1985.

Professional Qualifications:

- Fellow of the Royal Australian Chemical Institute (FRACI)
- Member of the Royal Society of Chemistry (MRSC)

Previous Appointments:

- Interim Dean of Faculty of Science, University of Wollongong, 2002.
- Associate Professor, Department of Chemistry, University of Wollongong 1999 – 2000
- Senior Lecturer, Department of Chemistry, University of Wollongong, 1993-1998.
- Lecturer, Department of Chemistry, University of Wollongong, 1989- 1992.
- QEII Research Fellow, R.S. Phys. Sci. Australian National University, 1987-1989.
- Research Reservoir Engineer, British Petroleum, The Research Centre, Sunbury-on-Thames, Middlesex, U.K. 1985-1986.
- Laboratory Technician, Abbott Labs. (Pharmaceuticals), Queenborough, Kent, UK. 1978-1979

Awards:

- Alexander von Humboldt Fellowship, 1992, and 1996. Two periods spent at University of Regensburg.
- QEII Research Fellowship, Commonwealth Government of Australia, 1987.
- Post-doctoral Fellowship, ANU, 1986.
- Science and Engineering Research Council, CASE PhD Scholarship with Unilever, 1982.

Research:

- I am a Physical Scientist with long-standing interests in properties and structure in conducting polymers, complex fluids, and foods. The common thread in these materials is the importance of dynamics and mass transfer processes to understanding structure and change at a molecular level. I also have much experience with applied and industrial research. Current projects include:
- Intelligent Polymer systems based on inherently conducting polymers (ICP). Interests in characterisation of their properties particularly redox and ion exchange.
 - Chief Investigator in ARC Centre of Excellence Australian Centre for Electromaterial Science (ACES).
 - Molecular Recognition and Separation systems for recovery of precious metals using ICP composite and other materials. On-going ARC Linkage funded project with Rio Tinto (with G. Wallace and D. MacFarlane (Monash)).
- Food processing units such as dehydration, thermal treatment and extraction rely on an understanding of the physico-chemical phenomena at play. Recent Dairy Australia Funded project on stability of milk protein (with J. Carver UAdel)
- Analysis of bioactive components in food, clinical and environmental samples such as phytoestrogens and antioxidants.
- Successfully (co-) supervised 12 PhD, 1 MSc and 10 Hons students to completion. I currently supervise 2 PhD students and 1 MSc student
- Over 100 papers in international journals. Average Citations/Paper = 10
- Co-recipient of over \$2 M in last ten years in project grants. In addition, Chief Investigator of a number of major centre applications including ARC Key Centre for Smart Foods, ARC Centre for Nanostructured Electrofunctional Materials and most recently the ARC Centre of Excellence for Electromaterial Science. In addition, consistent success on LEIF proposals.
- Inventor on a number of provisional patents and full patents, including most recently: *Separation and Recovery of Precious Metals Using Polymer Materials*. Ding, J., Price, W. E., Ralph, S., Wallace, G. G. Australian Patent Application No. PR8311

Teaching Experience & Philosophy:

- Have over 18 years experience of University teaching in general Chemistry, Food Chemistry, Physical Chemistry and Materials Chemistry at 100-400 Level plus post-graduate courses.
- Degree coordinator for newly established Bachelor of Nanotechnology Degree
- Extensive experience at new course and subject development, laboratory course development
- My philosophy is for student centred learning which engages students actively, and in particular in experimental science, one where the focus on learning is through their practical experience.

Administrative Experience

- I have had considerable management experience during my time at University of Wollongong. In particular my roles as Head of the Department of Chemistry since January 2001 and Interim Dean of the Faculty of Science (March – August 2002) have given me experience of curriculum development, resource management and budgeting, OH&S, staff development and research management. The Faculty of Science, UoW has a \$10M budget, three major Schools/Departments and over 100 staff. The Department of Chemistry has over 40 academic staff (including Research Fellows), 15 general staff and 60+ post-graduate research students.
- Current management roles at UoW:
 - Head of School of Chemistry
 - Standing Acting Dean of Faculty of Science
 - Permanent Standing Member of Academic Probations Committee
 - Chair of Faculties of Science and Health and Behavioural Sciences OH&S Committee (Workplace Advisory Committee)
 - Chair of Departmental OH&S Committee
 - Management (Deans/Heads) Representative on University OH&S Committee.
 - Member of Faculty Executive Committee and Education Committee
 - Member of Faculty Research Committee
 - Member of University Senate
 - Head Post-graduate Studies (Research student Coordinator)
 - Various subject coordination roles
- Previous roles at UoW:
 - Chair of Faculty Library Committee (1997-2000)
 - Departmental Library Liaison Officer (1990-2000)
 - Elected Faculty Representative to Law Faculty (1993 – 1997)
 - Member of Internal Audit Review Committee for QPAC (2004)
 - Member of WP on Research Misconduct Policies (2005)
 - Member of WP on Academic Staff Development Documentation (2005)

Other Professional Responsibilities:

- Referee for a range of International Journals, including Journal of Physical Chemistry, Journal of Agriculture and Food Chemistry, Journal of Chemical Engineering Data, Physical Chemistry, Chemical Physics, John Food Chemistry, Journal of Food Engineering, Journal of Solution Chemistry, Australian Journal of Chemistry
- Expert referee for ARC Physical and Earth Sciences Panel.
- Treasurer of the Electrochemistry Division of the Royal Australian Chemical Institute (1993-1998)
- President of Wollongong sub-branch of RACI (1991-1994)
- Committee Member of NSW branch of RACI (1991-1994)
- Committee Member of Wollongong sub-branch RACI (1991-2003)

Publications

1. Ding, J., et al., *Induction of titanium reduction using pyrrole and polypyrrole in the ionic liquid ethyl-methyl-imidazolium bis(trifluoromethanesulphonyl)amide*. Electrochemistry Communications, 2008. **10**: p. 217-221.
2. Nguyen, M. and W.E. Price, *Air-drying of Banana: influence of experimental parameters, slab thickness, banana maturity and harvesting season*. Journal of Food Engineering, 2007. **79**(1): p. 200-207.
3. Murray, T., et al., *Tissue Distribution of Lignans in Rats in Response to Diet, Dose – Response and Competition with Isoflavones* Journal of Agricultural & Food Chemistry, 2007. **55**(12): p. 4907-4912.
4. Larkin, T.A., W.E. Price, and L.B. Astheimer, *Increased probiotic yogurt or resistant starch intake does not affect isoflavone bioavailability in subjects consuming a high soy diet*. Nutrition, 2007. **23**(10): p. 709-718.
5. Larkin, T.A., W.E. Price, and L.A. Astheimer, *The key importance of soy isoflavone bioavailability to understanding health benefits*. Critical Reviews of Food Science and Nutrition, 2007. **in press**.
6. Larkin, T.A., L.A. Astheimer, and W.E. Price, *Significant lipid reductions with dietary combination of soy and a probiotic or a prebiotic in mildly hypercholesterolemic subjects*. European Journal of Clinical Nutrition, 2007. **in press**.
7. Kang, J., L.A. Hick, and W.E. Price, *Using calibrational approaches to compensate for remaining matrix effects in quantitative LC-ESI-MSⁿ analysis of phytoestrogens in aqueous environmental samples* Rapid Communications in Mass Spectrometry, 2007. **21**: p. 4065-4072.
8. Kang, J., L.A. Hick, and W.E. Price, *A fragmentation study of isoflavones in negative electrospray ionization by MSⁿ ion trap mass spectrometry and triple quadrupole mass spectrometry*. Rapid Communications in Mass Spectrometry, 2007. **21**: p. 857-868.
9. Ghahghaei, A., et al., *The effect of dextran on subunit exchange of the molecular chaperone alpha-crystallin*. Biophysica Biochimica Acta - Proteins and Proteomics, 2007. **1774**: p. 102-111.
10. Price, W.E., D.W.T. Griffith, and S.R. Wilson, *Thermodynamics of the NO₂ – N₂O₄ Equilibrium by FTIR: An APCELL Experiment*. Australian Journal of Chemical Education, 2006. **67**: p. 17-23.
11. Kang, J., W.E. Price, and L.A. Hick, *Simultaneous determination of isoflavones and lignans at trace levels in natural waters and wastewater samples using LC-ESI ion-trap MS*. Rapid Communications in Mass Spectrometry, 2006. **20**: p. 2411-2418.
12. Morgan, P.E., et al., *Casein proteins as molecular chaperones*. Journal of Agricultural and Food Chemistry, 2005. **53**(7): p. 2670-2683.
13. Damris, M., et al., *Fractionation of sedimentary arsenic from Port Kembla Harbour, NSW, Australia*. Journal of Environmental Monitoring, 2005. **7**: p. 621-630.
14. Tsekouras, G., et al., *Recovery of metal ions using Inherently conducting polymer coated textiles*. Fibers and Polymers, 2004. **5**(1): p. 1-5.

15. Ding, J., et al., *Electroless Recovery of Gold Chloride Using Inherently Conducting Polymers*. Polymer International, 2004. **53**: p. 681-687.
16. Khalkhali, R.A., W.E. Price, and G.G. Wallace, *Quartz crystal microbalance studies of the effect of solution temperature on the ion-exchange properties of polypyrrole conducting electroactive polymers*. Reactive and Functional Polymers,, 2003. **56**: p. 141-146.
17. Ding, J., et al., *Recovery of gold cyanide using inherently conducting polymers*. Polymer International, 2003. **52**(1): p. 51-55.
18. Ding, J., et al., *Gold recovery using fabric coated with conducting polymers*. Synthetic Metals, 2003. **135-136**: p. 35-36.
19. Ding, J., et al., *Electrochemical Behaviour of Polypyrrole/S-polyOHE composites*. Synthetic Metals, 2002. **129**(1): p. 67-71.
20. Sabarez, H.T. and W.E. Price. *Effect of processing conditions on the Physico-chemical changes during dehydration of prunes*. in *International Symposium on Fruit, Nut and Vegetable production engineering (ISBN 3-00-008305-7)*. 2001. Potsdam, Germany: ATB.
21. Price, W.E., S.F. Ralph, and G.G. Wallace, *Separation and recovery of gold and other metals using conducting polymers*. Australian Journal of Chemistry, 2001. **54**(9-10): p. 615-619.
22. Misoska, V., et al., *Electrochemical Synthesis of Pyrrole Through A Polystyrene Opal Matrix*. Synthetic Metals, 2001. **121**(1-3): p. 1501-1502.
23. Misoska, V., et al., *Synthesis, characterization and ion transport on polypyrrole/DNA conducting polymer membranes*. Synthetic Metals, 2001. **123**(2): p. 279-281.
24. Misoska, V., et al., *Polypyrrole membranes containing chelating ligands: synthesis, characterization and transport studies*. Polymer, 2001. **42**: p. 8571-8579.
25. Larkin, T.A., L. Astheimer, and W.E. Price, *Health Benefits of Phytoestrogens*. Agro Food Hi-Tech, 2001. **12**(1): p. 19-23.
26. Ding, J., et al., *Transport of gold across composite poly(bithiophene) membranes*. Synthetic Metals, 2001. **119**(1-3 Special Issue SI): p. 357-358.
27. Ding, J., et al., *Metal separation using polypyrroles containing chelating agents*. Synthetic Metals, 2001. **119**(1-3 Special Issue SI): p. 373-374.
28. Sabarez, H.T., W.E. Price, and J. Korth, *Volatile changes during dehydration of d'Agen prunes*. Journal of Agricultural & Food Chemistry, 2000. **48**(5): p. 1838-1842.
29. Price, W.E., et al., *Role of the waxy skin layer in moisture loss during dehydration of prunes*. Journal of Agricultural & Food Chemistry, 2000. **48**(9): p. 4193-4198.
30. Larkin, T.A., L. Astheimer, and W.E. Price, *Analysis of Phytoestrogens in Foods and their bioavailability*. Agro Food Hi-Tech, 2000. **11**(6): p. 24-27.
31. Ding, J., et al., *Synthesis and properties of a mechanically strong poly(bithiophene) composite polymer containing a polyelectrolyte dopant*. Synthetic Metals, 2000. **110**: p. 123-132.
32. Storey, R. and W.E. Price, *Microstructure of the skin of d'Agen plums*. Scientia Horticulturae, 1999. **81**(3): p. 279-286.

33. Sabarez, H.T. and W.E. Price, *A diffusion model for prune dehydration*. Journal of Food Engineering, 1999. **42**(3): p. 167-172.
34. Price, W.E., et al., *Development of membrane systems based on conducting polymers*. Synthetic Metals, 1999. **102**(1-3): p. 1338-1341.
35. Ferry, B. and W.E. Price, *Investigating a cup of tea*. Australian Science Teachers' Association, 1999. **45**(4): p. 51-53.
36. Zhao, H., W.E. Price, and G.G. Wallace, *Synthesis, Characterisation and Transport Properties of Layered Electroactive Polypyrrole Membranes*. J. Membrane Sci., 1998. **148**: p. 161-172.
37. Karger, N., T. Gross, and W.E. Price, *Self-Diffusion in fluoroethanols*. Review of high-pressure science and technology, 1998. **7**: p. 1207-1209.
38. Karger, N., T. Gross, and W.E. Price, *p,T dependence of self diffusion in 2-fluoroethanol, 2,2-difluoroethanol and 2,2,2-trifluoroethanol*. J. Molecular Liquids, 1998. **75**: p. 159-168.
39. Gross, T., et al., *The pressure dependence of self-diffusion in fluid NH₃ and ND₃*. Review of high-pressure science and technology, 1998. **7**: p. 1342-1344.
40. Zhao, H., et al., *Electropolymerisation studies of 2-(3-thienyl)ethyl sulfonate with polypyrrole*. Reactive & Function Polymers, 1997. **34**(1): p. 27-36.
41. Wilford, L.G., H.T. Sabarez, and W.E. Price, *Kinetics of carbohydrate change during dehydration of d'Agen prunes*. Food Chemistry, 1997. **59**: p. 149-155.
42. Sabarez, H., et al., *Modelling the kinetics of drying of D'Agen Plums (Prunus Domestica)*. Food Chemistry, 1997. **60**(3): p. 371-382.
43. Price, W.E., et al., *Dehydration of prunes: kinetic aspects*. Agro Food Hi Tech, 1997. **8**(6): p. 29-33.
44. Price, W.E. and H.-D. Lüdemann, *NMR and diaphragm cells techniques for the study of molecular dynamics in fluids*, in *High Pressure Techniques in Chemistry and Physics*, N. Isaacs, Editor. 1997, OUP: Oxford. p. 225-266.
45. Mirmohseni, A., W.E. Price, and G.G. Wallace, *The effect of different electrical stimuli on the oxidation/reduction behaviour of polypyrrole-pTS: a study using EQCM*. Synthetic Metals, 1997. **84**(1-3): p. 823-824.
46. Gross, T., et al., *The p,T - dependence of self-diffusion in fluid ammonia*. J. Molecular Liquids, 1997. **73-74**: p. 433-444.
47. Zhao, H., et al., *Parameters affecting the electrochemical control across conducting polymer membranes*. J. Membrane Sci, 1996. **119**: p. 199-213.
48. Price, W.E., R. Mills, and L.A. Woolf, *The use of experimental diffusion coefficients to probe solute-solute and solute-solvent interactions in electrolyte solutions*. J. Phys. Chem, 1996. **100**: p. 1406-1419.
49. Newman, G.M., W.E. Price, and L.A. Woolf, *Factors influencing the drying of prunes. 1 the effect of drying temperature on the kinetics of moisture loss from prunes*. Food Chemistry, 1996. **57**: p. 241-244.
50. Mirmohseni, A., et al., *Intelligent Polymer Membranes*, in *Encyclopaedia of Polymeric Materials*. 1996, CRC Press: Boca Raton.
51. Mirmohseni, A., et al. *Communicating with Responsive Intelligent Membranes*. in *3rd Int'l conf. Advanced New Materials and Emerging Technologies*. 1996. Kuala Lumpur: Wiley.

52. Chambers, C., K. Exaudi-Larsen, and W.E. Price, *Aqueous extraction of solubles from oranges: a kinetic study*. Food Chemistry, 1996. **57**(4): p. 483-486.
53. Ansari, R., W.E. Price, and G.G. Wallace, *The effect of thermal treatment on the electroactivity of polyaniline*. Polymer, 1996. **37**: p. 917-923.
54. Zhou, D., et al., *Electrochemically controlled transport in a dual conducting polymer membrane system*. Journal of Membrane Science, 1995. **98**(1-2): p. 173-176.
55. Price, W.E. and L.A. Woolf, *intradiffusion coefficients for perchlorate ions in zinc perchlorate and zinc chloride solutions at 25-degrees-c - comparing transport properties of zinc chloride and zinc perchlorate systems*. Journal of Solution Chemistry, 1995. **24**(3): p. 211-225.
56. Price, W.E., et al. *Electrochemical control in conducting polymer membrane system designs*. in *Proceedings of Euromembranes 95*. 1995. University of Bath.
57. Price, W.E., et al. *Conducting electro-active polymers as versatile membrane materials*. in *Proceedings of Euromembranes 95*. 1995. University of Bath.
58. Price, W.E. *Intelligent membranes based on conducting polymers*. in *Proceedings of Euromembranes 95*. 1995. University of Bath.
59. Mirmohseni, A., W.E. Price, and G.G. Wallace, *Electrochemically controlled transport of small charged organic molecules across conducting polymer membranes*. J Membrane Sci, 1995. **100**(3): p. 239-248.
60. Lee, Y.J., W.E. Price, and M.M. Sheil, *Effect of organic solvents on the separation of phenolic acids by capillary electrophoresis*. The Analyst, 1995. **120**: p. 2689-2694.
61. Heinrich-Schramm, A., W.E. Price, and H.D. Ludemann, *p,T-dependence of self diffusion in mixtures of hexane/ethanol and hexane/dimethylether*. Zeitschrift fur Naturforschung Section A, 1995. **50**(2-3): p. 149-154.
62. Heinrich-Schramm, A., W.E. Price, and H.D. Ludemann, *Self-diffusion in compressed dimethylether - the influence of dipole-dipole interaction and hydrogen bonding upon translational diffusivity in simple fluids*. Zeitschrift fur Naturforschung Section A, 1995. **50**(2-3): p. 145-148.
63. Zhao, H., W.E. Price, and G.G. Wallace, *Effect of the counterion employed during synthesis on the properties of polypyrrole membranes*. Journal of Membrane Science, 1994. **87**(1-2): p. 47-56.
64. Zhao, H., et al., *Transport across stand-alone conducting polypyrrole membranes containing dodecylsulfate counterions*. Reactive Polymers, 1994. **23**(2-3): p. 213-220.
65. Zhao, H., et al., *Scratching the surface of intelligent materials : characterisation methods for conducting polymer films*. Intelligent Mat. Sys. and Struc., 1994. **5**: p. 605-611.
66. Price, W.E., G.G. Wallace, and H. Zhao. *Intelligent Polymer Membranes*. in *Frontiers of Polymers and Advanced Material*. 1994. Malaysia.
67. Price, W.E. and G.G. Wallace. *Conducting Polymer membranes as intelligent separation systems*. in *2nd Int'l Conf. on Intelligent Materials ICIM-94*. 1994. Williamsburg, VA, USA: Technomic.

68. Price, W.E. and J.C. Spitzer, *The kinetics of extraction of individual flavanols and caffeine from a Japanese green tea (Sen Cha Tsuyu) as a function of temperature*. Food Chemistry, 1994. **50**: p. 19-23.
69. Price, W.E., *Green Tea Flavanols and Cancer*. Agro. Food Industry, 1994. **5**: p. 18-20.
70. Draisma, K., et al., *The process of developing a tutorial system for teaching Aboriginal nursing students chemistry*. Aust./NZ Student Services Assoc. Journal, 1994(July): p.??
71. Weingartner, H., et al., *Transport measurements in aqueous Na₂ SO₄. Evidence for Like-Ion Pairs in Concentrated Solutions*. J. Phys. Chem., 1993. **97**: p. 6289-6291.
72. Price, W.E. and L.A. Woolf, *Intradiffusion coefficients of gallium and perchlorate ions and water and viscosities for aqueous solutions of gallium perchlorate up to 2.3 molal at 25°C*. J. Solution Chemistry, 1993. **22**(10): p. 873-882.
73. Price, W.E. and J.C. Spitzer, *Variations in the amounts of individual flavanols in a number of green teas*. Food Chemistry, 1993. **47**: p. 271-276.
74. Price, W.E. and J.A. Spitzer, *The temperature dependence of extraction of soluble constituents from black tea*. Food Chemistry, 1993. **46**: p. 133-136.
75. Mirmohseni, A., et al., *Adaptive Membrane Systems based on conductive electroactive polymers*. J. Intell. Material Sys. and Struc., 1993. **4**: p. 43-49.
76. Mirmohseni, A., W.E. Price, and G.G. Wallace, *Electrochemically controlled transport across conducting polymer composites: basis of smart membrane materials*. Polymer Gels and Networks, 1993. **1**: p. 61-77.
77. Malhotra, R., W.E. Price, and L.A. Woolf, *Thermodynamic properties of 3-pentanone from 278 K to 338 K and 0.1 to 380 MPa*. J. Chem. Thermodynamics, 1993. **25**: p. 361-366.
78. Huijun, Z., W.E. Price, and G.G. Wallace, *Transport of Cu(II) across conducting polypyrrole membranes: the effect of applied potential waveforms*. Polymer, 1993. **34**(1): p. 16-20.
79. Draisma, K., et al. *The process of developing a tutorial system for teaching Aboriginal nursing students chemistry - a case study, implications for teaching, student academic development and support, resource allocation and the Aboriginal Tutorial Assistance Scheme*. in *Best Practice in Aboriginal and Torres Strait Islander Education*". The National Languages and Literacy Institute of Australia Workshop on Aboriginal Literacy. 1993. Canberra.
80. Price, W.E. and L.A. Woolf, *Intradiffusion coefficients for iron and water and shear viscosities in aqueous iron(II) perchlorate solutions at 25°C*. J. Solution Chem., 1992. **21**(3): p. 239-248.
81. Huijun, Z., W.E. Price, and G.G. Wallace, *Electrochemically Controlled Transport of Potassium Chloride across a conducting electroactive polymer membrane*. J. Electroanal. Chem., 1992. **334**: p. 111-120.
82. Price, W.E. and L.A. Woolf, *Inferences on dynamic water structure in aqueous solutions from diffusion measurements*. J. Molecular Structure, 1991. **250**: p. 305-313.

83. Price, W.E. and H. Weingartner, *Ion Pairing and Redissociation in concentrated aqueous solutions of 2:2 electrolytes: a transport study of Aqueous ZnSO₄*. J. Phys. Chem., 1991. **95**: p. 8933-8938.
84. Easteal, A.J., et al., *Intradiffusion and viscosity measurements in acidified iron(III) chloride solutions at 25 °C*. J. Solution Chem., 1991. **20**(3): p. 319-334.
85. Spiro, M., M. Kandiah, and W.E. Price, *Extraction of Ginger Rhizome : kinetic studies with organic solvents*. Int. J. Food Sci. and Technol, 1990. **25**: p. 157-167.
86. Price, W.E. and L.A. Woolf, *Hydration Information from Diffusion Measurements in Transition Metal Salt Solutions*. Ber. Bunsen-Gesell. Phys. Chem., 1990. **94**: p. 381-384.
87. Malhotra, R., et al., *Thermodynamic and Transport properties of 1,2 - Dichloroethane*. Inter. J. Thermophysics, 1990. **11**: p. 835-861.
88. Harris, K.R., W.E. Price, and L.A. Woolf, *Hydration numbers for Zinc(II) ions in solution: Shear viscosities and Intradiffusion coefficients for Zn(II) and ³HHO in Zinc (II) perchlorate solutions at 298 K*. J. Phys. Chem., 1990. **94**: p. 1509-1514.
89. Harris, K.R., et al., *The temperature and density dependences of the Self-Diffusion Coefficient and Shear Viscosity of liquid trichloromethane*. Mol. Physics, 1990. **71**(6): p. 1205-1221.
90. Spiro, M., D.M. Grandoso, and W.E. Price, *The Protonation Constant of Caffeine in Aqueous Solution*. J.C.S. Faraday Transactions I, 1989. **85**: p. 4259-4267.
91. Price, W.E., K. Trickett, and K.R. Harris, *The Association of Caffeine in Aqueous Solutions : Its Effects on Caffeine Intradiffusion*. J. C. S. Faraday Trans. I, 1989. **85**: p. 3281-3288.
92. Price, W.E., *Tracer diffusion of caffeine in aqueous solutions at 298.15 K: The effect of caffeine self-association*. J.C.S. Faraday Trans. I, 1989. **85**: p. 415-419.
93. Easteal, A.J., W.E. Price, and L.A. Woolf, *Hydration models for trivalent metal ion solutions : shear viscosities and diffusion coefficients of Fe(III) and THO in Iron(III) perchlorate solutions at 298.15 K*. J. Phys. Chem., 1989. **93**: p. 7517-7520.
94. Easteal, A.J., W.E. Price, and L.A. Woolf, *A Diaphragm Cell for High Temperature Diffusion Measurements; Tracer Diffusion Coefficients for Water to 363 K*. J.C.S. Faraday Trans. I, 1989. **85**: p. 1091-1097.
95. Price, W.E., *The Theory for Taylor's dispersion technique for three component diffusion measurements*. J.C.S. Faraday Transactions I, 1988. **84**: p. 2431-2439.
96. Spiro, M., et al., *Kinetics and Equilibria of tea infusion, Part VIII: The effect of salts and of pH on the rate of extraction of theaflavins from black tea leaf*. Food Chemistry, 1987. **25**: p. 117-126.
97. Spiro, M. and W.E. Price, *Kinetics and Equilibria of tea infusion, Part VII: The effect of salts and of pH on the rate of extraction of caffeine from Kapchorua Pekoe Fannings*. Food Chemistry, 1987. **25**: p. 49-59.
98. Spiro, M. and W.E. Price, *Kinetics and Equilibria of tea infusion, Part VI: The effects of salts and of pH on the concentrations and partition constants of Theaflavins and Caffeine in Kapchorua Pekoe Fannings*. Food Chemistry, 1987. **24**: p. 51-61.
99. Spiro, M. and W.E. Price, *Determination of Theaflavins in tea solutions using the Flavognost complexation method*. J. Sci.Food Agric., 1986. **111**: p. 331-333.

100. Price, W.E. and M. Spiro, *Kinetics and Equilibria of Tea Infusion : concentrations of caffeine, theaflavin and thearubigins in several whole teas and sieved fractions*. J. Sci. Food Agric., 1985. **36**: p. 1303-1308.
101. Price, W.E. and M. Spiro, *Kinetics and Equilibria of tea infusion: Rates of Extraction of Theaflavin, Caffeine and Theobromine from several whole teas and sieved fractions*. J. Sci. Food Agric., 1985. **36**: p. 1309-1314.

Referees:

Professor Margaret Sheil
Chief Executive Officer
Australian Research Council
Canberra ACT 2601
Email: msheil@arc.gov.au

Professor Leon Kane-Maguire
School of Chemistry
University of Wollongong
NSW 2522
Tel: 02 42 213 559
Email: leon_kanemaguire@uow.edu.au

Professor Philip Bartlett
School of Chemistry,
University of Southampton,
Highfield, Southampton,
SO17 1BJ, United Kingdom
Tel: +44 (0)23 8059 2373
Email: pnb@soton.ac.uk

Professor Doug MacFarlane
School of Chemistry
Monash University
Box 23
Victoria 3800 Australia
Tel: 03 9905 4540
Email: douglas.macfarlane@sci.monash.edu.au

Professor Hans-Dietrich Ludemann
Institute for Biophysics and Physical Biochemistry
University of Regensburg
REGENSBURG D-93040
GERMANY
Tel:
Email: hans-dietrich.luedemann@biologie.uni-regensburg.de

Grants received

Year	Agency	Title	Co-authors	Amount \$
2006	ARC LEIF	State of the art NMR facilities	Pyne, Otting, Price et al	470K (UoW 285K; ANU 208K)
2005	ARC CoE	Centre for Electromaterials Science	Wallace et al	12M
2005	ARC LEIF	Ultra-high resolution NMR imaging system	W.S. Price et al	740K
2005	New Partners	Inter-lab assay comparison for quantitation of hormones in waste water (with Ecowise)	Price and Khan	35K
2004	ARC Linkage	Electrolytic Recovery of Titanium and Direct Deposition of Fe-Ti Alloys using Novel Electrolytes	Wallace, MacFarlane, Price and Shaw (Rio Tinto)	275K
2004	ARC LEIF	Electrochemical ESR	Wallace et al	148K
2003	ARC CoE	ARC Centre for Nanostructured Electromaterials	Wallace et al	7.3M
2003	New Partnerships (UoW)	Fate of Persistent Organic Pollutants in Wastewater Treatment Systems (with Mid Coast Water)	Price and Schaefer	34.5K
2003	International Science Linkage (DEST)	2003 Integrated Concepts for Reuse of Upgraded Wastewater in Australia (OZ-AQUAREC)"	Schaefer, Price, Hampton and Russell	650K
2003	New Partnerships (UoW)	The use of ionic liquids for electrorefining of precious metals	Wallace, Price and Ralph	26K
2002	Dairy Australia	The chaperone ability of the milk protein alpha casein	Carver and Price	240K
2001	ARC RIBG	High level support for Chemistry NMR Facility	Carver and Price	165K
2000	ARC Small	Hydrophobic Hydration and Molecular Diffusion	Price	13K
2000	ARC SPIRT	Phytoestrogens: Smart Foods for Ageing Populations	Astheimer, Price, Howe and Meyer	63K
2000	CUTSD	Australian Physical Chemistry Enhanced Laboratory Learning	Consortium of 35 Unis; Leader S. Kable USyd	167K
1999	ARC	Key Centre for Smart Foods	Coordinator: P. Howe	1070K
1998	ARC SPIRT	Nanofiltration membrane system based on thin film conducting polymers (with MemTec)	Wallace and Price	63K
1998	DFRDC	Field Trials involving the use of drying oils in commercial prune drying	Price	18K
1998	DFRDC	Osmotic Dehydration of fruit	Price	30K
1997	CRA	Novel conducting polymers for mineral recovery	Wallace and Price	30K
1997	ARC small	High pressure spectroscopic	Carver and Price	10K

		studies of reversible unfolding of proteins and peptides		
1997	ARC Small	Solvation dynamics in binary solvent electrolytes	Price	9K
1995	ARC RIBG	PFG indirect detection NMR probe	Bremner, Pyne, carver and Price	68K
1995	ARC Small	High pressure NMR for studying reversible unfolding of proteins	Price and Carver	10K
1994	DFRDC	Improving the energy efficiency of prune drying	Price and Woolf	121K
1994	TILP	Development of Intelligent Membranes	Wallace, Price et al	200K
1994	ARC Collab.	Transport through polymer membranes	Wallace and Price	270K
1994	CRC Waste management	Conducting polymer membranes	Wallace and Price	182K
1993	CRC Waste management	Conducting polymer membranes	Wallace and Price	192K
1993	CRA	Mineral Processing	Wallace and Price	32K
1992	ARC Small	Extraction kinetics from citrus fruit	Price	10K
1992	ARC small	Transport of low molecular electroinactive organic species across CP membranes	Wallace and Price	10K
1992	CRA	Controlled separations using CEP membranes	Wallace and Price	34K
1992	Humboldt Stiftung	AvH Foundation Fellowship	Price	32K
1991	ARC small	Extraction kinetics from citrus fruit	Price	15K
1991	CRA	Controlled separations from CEP membranes	Price and Wallace	35K

Research Students Supervised

Name	Degree	Year	Co-supervisor
Jenny Vazquez	PhD	Current	Sheil
Jinguo Kang	PhD	Current	
Arezhou Ghahaei	PhD	2006	Carver (Adel)
Yoke Berry	PhD	2006	Carver (Adel)
Randolph Mar	PhD	Lapsed	Carver (Adel)
Jawad Alrifri	PhD	Current	
Theresa Larkin	PhD	2005	Lee Astheimer
Damris Mohammad	PhD	2004	John Morrison
Violeta Misoska	PhD	2003	Wallace, Ralph
Jie Ding	PhD	2002	Wallace, Ralph
Ian Price	PhD	2000 lapsed	
Henry Sabarez	PhD	1998	
Dezi Zhou	PhD	1997	Wallace
Reza Ansari	PhD	1995	Wallace
Young Joon Lee	PhD	1994	Sheil
Alireza Mirmohseni	PhD	1994	Wallace
Huijun Zhao	PhD	1993	Wallace
Minh hue Nguyen	MSc (Res)	2000	
Michael Collela	MSc (Res)	2003 lapsed	

