

**Curriculum Vitae: Jörg Imberger**

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**Education:** BCE U. Melbourne 1963, M E n g. Sc. UWA 1966, Ph.D UCB 1970

**Current Positions:**

Professor (Adjunct), RSMAS, University of Miami, Florida, USA

Visiting Professor University of Venice, Venice, Italy

Member of the Argentinean Water Resources Advisory Board

Associate Editor, J Ecohydraulics

**Research Interests:**

- The motion and mixing in lakes, estuaries and coastal seas in response to both natural forces such as tides, meteorological surface fluxes, river inflows and outflows as well as anthropogenic forcings such as effluent buoyant jets, bubble plumes and mechanical mixers.
- The dependence of aquatic ecological systems on transport and mixing processes and the application of this combined knowledge to the sustainable management of river basins.
- The role of aquatic systems in global warming
- Sustaining functionality of aquatic systems in a changing world

**Fellow of Learned Societies:**

- 2016 Fellow Academy of Distinguished Alumni; DCE, UCB
- 2010 Fellow (Inaugural): Australasian Fluid Mechanics Society
- 2008 Fellow: Royal Academy of Engineering
- 2007 Fellow: American Geophysical Union
- 2006 Member: US National Academy of Engineering - Foreign
- 2001 Fellow: Academy of Engineering, Argentina
- 1999 Fellow: The Water Academy, Oslo, Norway
- 1993 Fellow: The Australian Academy of Science
- 1991 Fellow: Institution of Engineers
- 1985 Fellow: Australian Academy of Technological Sciences and Engineering

**Honours and Awards:**

- 2016 Elected to the Academy of Distinguished Civil Eng. Alumni, UCB
- 2010 Inaugural member of BP Gulf Research Initiative Board
- 2008 Scientist of the Year, WA Premier's Science Award
- 2007 Redfield Life Time Achievement Award, American Society of Limnology and Oceanography
- 2004 Vice-Chancellor's Distinguished Fellow, UWA
- 2003 Centenary Medal: For service to the community through science and environmental engineering, Australian Government, Canberra
- 2002 Sackler Professorship Award, the Sackler Institute of Advance Studies, Israel

- 2001 Walter Bean Scholar 2001, University of Waterloo, Ontario, Canada
- 2001 James N Kirby Award, Institution of Electrical Engineers. Kingston, Australia
- 1999 Honorary Doctorate: Democritus University of Thrace, Xanthi, Greece
- 1997 Excellence in Postgraduate Research Supervision Award Commendation, The Guild of Undergraduate and the University of Western Australia
- 1997 Kernot Medal, Melbourne University, Engineering Foundation
- 1997 Clunies Ross National Science & Technology Award, Australian Academy of Technological Sciences, Melbourne Australia
- 1996 The Stockholm Water Prize. Stockholm Water Foundation, Stockholm, Sweden
- 1996 Western Australian Citizen of the Year Award: "The Professions", Perth, Western Australia
- 1995 Peter Nicol Russell Memorial Medal for 1995, The Institution of Engineers, Australia
- 1995 Peter Hughes Water Award, Awarded by Australian Water & Wastewater Association Inc
- 1995 Onassis International Prize: "Man and his Environment", Alexander S. Onassis Foundation, Athens, Greece
- 1994 Karl Emil Hilgard Hydraulics Prize, American Society of Civil Engineers, USA
- 1992 Shimizu Visiting Professorship, Stanford University, USA
- 1992 Jolly Award, Australian Society for Limnology
- 1992 Member of the Order of Australia, Perth,
- 1988 Karl Emil Hilgard Hydraulics Prize, American Society of Civil Engineers
- 1987 Senior Visiting Fellow to Japan funded by the Japan Society for the Promotion of Science.
- 1986 Fairchild Distinguished Fellow, Caltech, Pasadena, USA.
- 1971 Science Fellow, University of California
- 1967-1970 Gledden Fellow, University of Western Australia

### ***Career History:***

- 2015-Present: Adjunct Professor, Rosenstiel School of Marine and Atmospheric Science
- 2016-Present: Visiting Professor, University of Venice.
- 2006-2015: Vice Chancellor Distinguished Fellow, University of Western Australia
- 2010-2015: Member of the Gulf of Mexico Research Initiative Board
- 2012-2015: Member of the Great Australian Bight Science Panel
- 1981-2015: Director, Centre for Water Research, University of Western Australia
- 1979-2015: Winthrop Professor, University of Western Australia
- 1976 – 1978: Associate Professor with Tenure, University of California, Berkeley
- 1973 – 1976: Lecturer/Senior Lecturer, University of Western Australia
- 1972: Visiting Assistant Professor, Caltech, Pasadena

- 1971: Visiting Assistant Professor, University of California, Berkeley
- 1965-1977:Tutor, University of Western Australia
- 1964: Research Assistant, University of Adelaide

***Member of Learned Societies:***

The Royal Society for the Encouragement of Arts, Manufactures & Commerce; Australian Society Limnological; Australian Marine Science Association; Australian Mathematical Society; Australian Metereological and Oceanographic Society; Australian Water and Wastewater Association; American Society of Limnology and Oceanography; American Society of Civil Engineers; American Meteorological Society; American Geophysical Union; Australian Institution of Engineers; Estuarine and Coastal Sciences Association; Estuarine Research Federation; International Association of Hydraulic Research; International Association on Water Pollution

***Publications:*** Books (5 + 1 In Prep); Contributions to Books (19); Journals (252); Conference Proceedings (98); Reports (146). The impact of my refereed publications, as assessed by the Web of Knowledge and *SCOPUS* is shown in table.

	Web of Knowledge			<i>SCOPUS</i>		
	<i>No</i>	<i>Citations</i>	<i>h-Index</i>	<i>No</i>	<i>Citations</i>	<i>h-Index</i>
Index Entries	246	6,794	46	249	6,865	41

## ***Publications List (Twenty Best \*)***

### ***Books (6)***

1. Imberger, J. and Marti, C., 2016, "Physical Limnology" Elsevier, USA. *In preparation*
2. \* Imberger, J., 2013, "Environmental Fluid Dynamics". Elsevier, USA. pp. 430
3. Imberger, J. (editor), 1998, "Physical Processes in Lakes and Oceans", Coastal and Estuarine Studies Series Volume 54, pp. 661
4. Okuda, S., Imberger, J. and Kumagai, M. (Editors), 1995, "The physical processes in a large lake: Lake Biwa, Japan", Coastal and Estuarine Studies Series, 48: pp. 216
5. Imberger, J., (Editor), 1983, "Physical oceanography in Australia", CSIRO, Melbourne, pp. 230
6. \* Fischer, H.B., List, E.J., Koh, R.C.Y., Imberger, J. and Brooks, N.H., 1979, "Mixing in inland and coastal waters", Academic Press, New York, pp. 483

### ***Contributions to Books (19)***

1. \* Imberger, J. and Marti, C.L., (2014), "The seasonal hydrodynamic habitat of Lake Kinneret", Lake Kinneret - Ecology and Management. Zohary, T., Sukenik, A., Berman, T., Nishri, A. (Eds.) ISBN 978-94-017-8943-1
2. Devkota, B.H. and Imberger, J., 2004, "Numerical simulation of river flows in a Lagrangian reference frame", Shallow Flows. G.H. Jirka and W.S.J. Uijtewaal, editors. *Selected papers of the International Symposium on Shallow Flows*, June 16-18 2003, Delft, The Netherlands, A.A. Bakema Publishers, pp. 672, 535-540
3. Imberger, J., 2001, "Lakes", The Encyclopedia on Environmetrics, John Wiley & Sons Ltd, A.H. El-Shaarawi and W.W. Piegorisch (Editors-in-Chief), 2: 1121-1130
4. Romero, J.R. and Imberger, J., 1999, "Seasonal horizontal gradients of dissolved oxygen in a temperate Australian reservoir", Theoretical Reservoir Ecology and its Applications. Edited by J.G. Tundisi and M. Straskraba. Special Issue of the International Institute of Ecology, Brazilian Academy of Sciences and Backhuys Publishers, pp. 211-226
5. De Silva, I.P.D., Imberger, J. and Ivey, G.N., 1998, "Breaking of super-critically incident internal waves at a sloping bed", In "Physical Processes in Lakes and Oceans", edited by J. Imberger, Coastal and Estuarine Studies Volume 54, American Geophysical Union., pp. 475-484
6. Imberger, J., 1998, "Flux paths in a stratified lake: A review", In "Physical Processes in Lakes and Oceans", Coastal and Estuarine Studies, edited by J. Imberger, Volume 54 American Geophysical Union., pp. 1-18
7. Ivey, G.N., Imberger, J. and Koseff, J.R., 1998, "Buoyancy fluxes in a stratified fluid", In "Physical Processes in Lakes and Oceans", edited by J. Imberger, Coastal and Estuarine Studies Volume 54, American Geophysical Union, pp. 377-388
8. Javam, A., Teoh, S.G., Imberger, J. and Ivey, G.N., 1998, "Two intersecting internal wave rays: A comparison between numerical and experimental results", In "Physical Processes in Lakes and Oceans", edited by J. Imberger, Coastal and Estuarine Studies Volume 54, American Geophysical Union., pp. 241-250
9. Lemckert, C.J. and Imberger, J., 1998, "Turbulent benthic boundary layer mixing events in fresh water lakes", In "Physical Processes in Lakes and Oceans", edited by J. Imberger, Coastal and Estuarine Studies Volume 54, American Geophysical Union., pp. 503 -516
10. Maxworthy, T., Imberger, J. and Saggio, A., 1998, "A laboratory demonstration of a mechanism for the production of secondary, internal gravity-waves in a stratified fluid"
11. Kumagai, M., Imberger, J. and Robarts, R.D., 1996, "Overview of BITE'93 and data catalogue", Lake Biwa Study Monographs, Lake Biwa Research Institute, Otsu, Japan Special Issue, pp. 1-18

12. Imberger, J., 1994, "Transport processes in lakes: A review article", In: *Limnology Now: A Paradigm of Planetary Problems*, R. Margalef (editor), pp. 99-193
13. \* Imberger, J. and Patterson, J.C., 1990, "Physical Limnology", In: *Advances in Applied Mechanics*, T. Wu (ed). Academic Press, Boston, Volume 27: pp. 303-475 pp.
14. Imberger, J. and Chapman, R., 1988, "Djinnang II: A facility to study mixing in stratified waters", In: *Hydrodynamics of Estuaries*, B. Kjerfve (ed), CRC Press, Florida, Volume 2: pp. 101-122
15. Parker, G.J. and Imberger, J., 1986, "Differential mixed-layer deepening in lakes and reservoirs", in: *Limnology in Australia*, P. De Deckker and W.D. Williams (eds). CSIRO Australia, Dr. W. Junk Publishers, Dordrecht, pp. 63-92
16. Imberger, J., 1982, "Reservoir dynamics modelling", In *Prediction in Water Quality*, E.M. O'Loughlin and P. Cullen (eds), Australian Academy of Science, Canberra, pp. 223 -248
17. Imberger, J., 1981, "The influence of stream salinity on reservoir water quality", In *Land and Stream Salinity*, J.W. Holmes and T. Talsma (eds), Elsevier Scientific Publishing Company, New York, pp. 255-273
18. Imberger, J. and Patterson, J.C., 1981, "A dynamic reservoir simulation model-DYRESM: 5", In *Transport Models for Inland and Coastal Waters.* H.B. Fischer (ed). Academic Press, New York, pp. 310-361
19. Pomeroy, L.R. and Imberger, J., 1981, "The physical and chemical environment", In *The Ecology of a Salt Marsh*, L.R. Pomeroy and R.G. Wiegert (eds), Springer-Verlag, New York, pp. 21-36

### ***Journal Papers (257)***

#### ***Currently In Preparation***

1. Tranmer A. W., Tonina, D, Rohan Benjankar, R., Sheedy, D. W., Vilhena, L., McGrath, C., Goodwin, P., Tiedemann, M., Marti, C.L., Imberger, J., Mckean, J. "Effects of reservoir operations on downstream ecosystems under variable hydrologic conditions" In draft form
2. Simanjuntak, A., Nakayama, K., Imberger, J. "Richardson Number Resolutions in Field Measurements and Turbulent Closures" In last revision
3. Saggio, A, Dellamano-Oliveira, M.J., Rio, C.,Vieira, A.H., and Imberger, J. "Physical drivers controlling the observed variability and patchiness of a *Microcystis aeruginosa* bloom in a reservoir"
4. Brennen, C.E., Keady, G. and Imberger, J. "Algae Population Dynamics". In Preparation, To be submitted to *Limnology and Oceanography*.
5. Zhou, W., Imberger, J., Fowkes, N., and Marti, C. L., "A Pseudo 3D Lagrangian Model Suitable for Simulating Climate Change Variability In Stratified Lakes". In preparation, To be submitted to *Limnology and Oceanography*.
6. Vilas, M. P., Marti, C. M., and Imberger, J., "Macrophytes influencing biochemical processes in a shallow urban lake: Lake Monger, Australia". In Preparation, To be submitted to *Limnology and Oceanography*.
7. Marti, C.L. and Imberger, J., "Intermediate and far field flow characteristics of a hypersaline brine generated by a desalination plant". In Preparation, To be Submitted to *Desalination*.
8. Woodward, B., Marti, C.L. and Imberger, J., "Hydrodynamics of differential cooling in shallow lakes". In Preparation, To be submitted to *Limnology and Oceanography*.
9. Marti, C.L. and Imberger, J., "Gravitational motions in a large sub-tropical reservoir: Lake Argyle, Western Australia". In preparation, To be submitted to *Limnology and Oceanography*.
10. Xing, Z., Chua' L.H.C., Miao' H and Imberger, J., "Wind Shielding Impacts on Water Quality in a Tropical Urban Lake". Submitted to *Envr Mod Software*.
11. Hogg, C.A.R, Dalziel, S.B., Huppert, H.E., and Imberger, J., 2015, "Inclined gravity currents

filling basins: peeling detrainment and its implications for transport and vertical structure in basins". *J of Fluid Mechanics*, Submitted.

#### 2016

12. Leoni, B., Marti, C.L., Forasacco, E., Mattavelli, M., Soler, V., Fumagalli, P., Imberger, J., Rezzonico, S. and Garibaldi, L., 2016, "The contribution of *Potamogeton crispus* to the phosphorus budget of an urban shallow lake: Lake Monger, Western Australia." *Limnology*, Volume 17, Issue 2, 1 April 2016, Pages 175-182
13. Marti, C.L., Imberger, J., Leoni, B. and Garibaldi, L., 2015, "Constraints on phytoplankton assemblages in a deep subalpine lake by physical process time scales: Lake Iseo, Italy". *Water Resources Research*, Volume 52, Issue 3, 1 March 2016, Pages 1762-1780

#### 2015

14. Jahromi, S.M., Imberger, J. Marti, C.L, Aliakbar Bidikhti, M.S., "Three-dimensional simulation of Oman in the late winter of 2005" *Journal of Marine Science and Technology*, 2015(Issue 3)
15. Marti, C.L. and Imberger, J., 2015, "A real-time management system for the Swan-Canning River Basin and its receiving waters, Western Australia, Australia". *Proceedings of the 36th IAHR World Congress*, 28 June - 3 July 2015, Delft-The Hague, The Netherlands. In press.
16. Hogg, C.A.R, Dalziel, S.B., Huppert, H.E., and Imberger, J., 2015, Inclined gravity currents filling basins: The influence of Reynolds number on entrainment into gravity currents *Physics of Fluids*, Volume 27, Issue 9.
17. Mensa, J.A., T.M. Özgökmen, T.M., Poje, A.C., and Imberger, J., 2015, "Material Transport in a Convective Surface Mixed Layer Under Weak Wind Forcing". *Ocean Modelling*, *Ocean Modelling*, Volume 96, December 01, 2015, Pages 226-242.

#### 2014 (8)

18. Zikun Xing, Lloyd H. C. Chua, Jorg Imberger Evaluation of Management Scenarios for Controlling Eutrophication in a Shallow Tropical Urban Lake, Avestia Publishing International Journal of Environmental Pollution and Remediation Volume 2, Issue 2, Year 2014 Journal ISSN: 1929-2732 DOI: 10.11159/ijep.2014.010
19. Chung, S.W., Imberger, J., Hipsey, J.M.R., and Lee, H.S., 2014, "The interplay of physical and physiological processes shape the spatial heterogeneity of *Microcystis* bloom in a stratified reservoir", *Ecological Modelling*, 289 (2014) 133–149
20. Silva, C., Marti, C.L. and Imberger, J., 2014, Mitigating the effects of high biomass algal blooms at the drinking water intakes of the city of Buenos Aires, Argentina *In Press J Hyd Research*
21. Brennen, C.E., Imberger, J., 2014, The wave induced solute flux from submerged sediments *Environmental Fluid Mechanics*, 14 (1) pp 87-111
22. Silva, C., Marti, C.L. and Imberger, J., 2014, "Physical and biological controls of high biomass algal blooms in the Río de la Plata", *In Press*, *Environmental Fluid Mechanics*,
23. Silva, C., Marti, C.L. and Imberger, J., 2014, "Horizontal transport, mixing and retention in a large, shallow estuary: Rio de la Plata", *In Press*, *Environmental Fluid Mechanics*
24. \* Machado, D.A., Marti, C.L., Imberger, J., 2014, "Influence of microscale turbulence on the phytoplankton of a temperate coastal embayment, Western Australia" *Estuarine, Coastal and Shelf Science*, 145, pp. 80-95
25. Machado, D.A., Imberger, J., 2014, "Modeling the impact of natural and anthropogenic nutrient sources on phytoplankton dynamics in a shallow coastal domain, Western Australia", *In Press*, *J. Environmental Fluid Mechanics*
26. Leoni, B, Marti, C.L., Imberger, J. and Garibaldi, L., 2014, "Summer spatial variations in phytoplankton composition and biomass in surface waters of a warm-temperate, deep and oligo-holomictic lake: Lake Iseo, Italy", *Inland Waters* 4(3) 303-310

#### 2013 (7)

27. Vilhena, L.C., Marti, C.L., Imberger J., 2013, The importance of non linear waves in a deep

- subalpine lake: Lake Iseo, Italy, *Limnology and Oceanography* 58(5) pp 1871-1891.
28. Andrich, M. and Imberger, J. 2013, "The effect of land clearing on rainfall and fresh water resources in Western Australia: A multi-functional sustainability analysis", *International Journal of Sustainable Development & World Ecology*, 20(6) pp 549-563
  29. \* Andrich, M.A., Imberger, J., Oxburgh, E.R., 2013, "Inequality as an obstacle to sustainable electricity and transport energy use", *Energy for Sustainable Development* 17(4) pp 315-325
  30. Yeates, P.S., Gómez-Giraldo, A., Imberger, J., 2013, "Observed relationships between microstructure patches and the gradient Richardson number in a thermally stratified lake" *Environmental Fluid Mechanics* 13 (3) pp. 205-226
  31. Hogg, C.A.R., Marti, C.L., Huppert, H.E., Imberger, J., 2013, "Mixing of an interflow into the ambient water of Lake Iseo", *Limnology and Oceanography* 58 (2), pp. 579-592
  32. Alexander, R., Imberger, J., 2013, "Phytoplankton patchiness in Winam Gulf, Lake Victoria: A study using principal component analysis of in situ fluorescent excitation spectra", *Freshwater Biology* 58 (2), pp. 275-291
  33. Antenucci, J.P., Tan, K.M., Eikaas, H.S., Imberger, J., 2013, "The importance of transport processes and spatial gradients on in situ estimates of lake metabolism", *Hydrobiologia* 700 (1) , pp. 9-21
- 2012 (9)**
34. Laborde, S., Imberger, J. and Toussaint, S., 2012, "Contributions of local knowledge of the physical limnology of Lake Como, Italy", *Proceedings of the National Academy of Sciences of the USA*, 109 (17) pp. 6441-6445
  35. Valerio, G., Pilotti, M., Marti, C. L. and Imberger, J., 2012, "Influence of bathymetry and wind field on basin-scale internal wave structure in a stratified lake: Lake Iseo, Italy", *Limnology and Oceanography*, 57(3): 772-786
  36. Laborde, S., Imberger, J. and Toussaint, S., 2012, "A wall out of place: a hydrological and socio-cultural analysis of physical changes to the lakeshore of Como, Italy", *Ecology and Society*, 17(1): pp. 33
  37. Devkota, B.H and Imberger, J., 2012, "Upper and middle Tiete River Basin Hydraulics, travel time and temperature modelling", *Journal of Hydrology*
  38. Kristiana, R., Antenucci, J. and Imberger, J., 2012, "Using a multi-component indicator to identify major variables controlling phytoplankton bloom occurrences in the Swan River estuary", *Environmental Management*, DOI: 10.1007/s00267-012-9870-1
  39. Antenucci, J. P., Tan, K. M., Eikass, H. and Imberger, J., 2012, "Spatial variability in a eutrophic reservoir: implications for in-situ measurements of lake metabolism", *Hydrobiologia*, DOI: 10.1007/s10750-012-1212-z
  40. Machado, D. A. and Imberger, J., 2012, "Managing wastewater effluent to enhance aquatic receiving ecosystem productivity: a coastal lagoon in Western Australia", *Journal of Environmental Management*, 99: 52-60
  41. Oveysy, A., Boegman, L. and Imberger, J., 2012, "Three-dimensional simulation of lake and ice dynamics during winter", *Limnology and Oceanography*, 57, 1,43-57
  42. Alexander, R., Gikuma-Njuru and Imberger, J., 2012, "Identifying spatial structure in phytoplankton communities using multi-wavelength fluorescence spectral data and principal component analysis" *Limnology and Oceanography-Methods*, 10: 402-415
- 2011 (10)**
43. Kristiana, R., Imberger, J. and Antenucci, J., 2011, "Sustainability assessment of the impact of the Marina Bay development on Singapore: application of the index of sustainable functionality", *International Journal of Environment and Sustainable Development*, 10 (1): 1-35
  44. Simanjuntak, A.M., Imberger, J., Nakayama, K. and Ishikawa, T., 2011, "Benthic and interfacial mixing in a strongly-stratified estuary", *Journal of Hydraulic Research*, 49; 6;

- 791-798
45. Coronado-Mendez, C.A., Czitrom, S. and Imberger, J., 2011, "Three-dimensional modelling of a wave driven seawater pump inflow into the Port of Ensenada, Mexico", *Journal of Coastal Research*, 27, 6A, 172-183
  46. Alosairi, Y., Imberger, J., Falconer, R., "Mixing and flushing in the Arabiab/Persian Gulf", *Journal of Geophysical Research – Oceans*, 116, C03029, doi: 10.1029/2010JC006769
  47. Meier, J.A., Jewell, J.S., Brennen, C.E., and Imberger, J., 2010, "Bubbles emerging from a submerged granular bed", *Journal of Fluid Mechanics*, 666: 189-203
  48. Kristiana, R., Imberger, J., Antenucci, J., 2011, "Sustainability assessment of the impact of the Marina Bay development on Singapore: application of the index of sustainable functionality", *International Journal of Environment and Sustainable Development*, 10(1): 1-35
  49. Kristiana, R., Vilhena, L.C., Antenucci, J. and Imberger, J., 2011, "The management of Lake Burragorang in a changing climate: the application of the Index of Sustainable Functionality", *Lake and Reservoir Management*, 27(1): 70-86
  50. Leon, L.F., Smith, R.E.H., Hipsey, M.R., Bocaniov, S.A., Higgins, S.N., Hecky, R.E., Antenucci, J.P., Guildford, S.J., Imberger, J., 2011 "Application of a 3D hydrodynamic-biological model for seasonal and spatial dynamics of water quality and phytoplankton in Lake Erie" *Journal of Great Lakes Research*, 37(1): 41-53
  51. Marti, C.L., Antenucci, J.P., Luketina, D., Okely, P., Imberger, J., 2011, "Near field dilution characteristics of a negatively buoyant hypersaline jet generated by a desalination plant", *Journal of Hydraulic Engineering, ASCE*, 137(1): 57-65
  52. Marti, C.L., Mills, R. and Imberger, J., 2011, "Pathways of multiple inflows into a stratified reservoir: Thomson Reservoir, Australia", *Advanced in Water Resources*, 34(5): 551-561 2010 (12) **2010 (13)**
  53. Andrich, M.A., Imberger, J. and Oxburgh, E.R., 2010, "Raising Utility and Lowering Risk through Adaptive Sustainability: Society and Wealth Inequity in Western Australia", *Journal of Sustainable Development*, 3: 14-35
  54. de la Fuente, A., Shimizu, K., Imberger, J., and Nino, Y., 2009, "Nonlinear and nonhydrostatic evolution of basin-scale waves in a large and deep lake; Lake Constance, Germany ", *Journal of Geophysical Research*, 115 C12045
  55. Etemad Shahidi, A., Faghihi, M. and Imberger, J., 2010, "Modelling thermal stratification and artificial de-stratification using DYRESM; case study: 15-Khordad Reservoir", *International Journal of Environmental Research*, 4(3): 395-406
  56. Huang, P., and Imberger, J., 2010, "Variation of pCO<sub>2</sub> in oceanic surface water in response to the passage of a hurricane", *Journal of Geophysical Research – Oceans*, doi: 10.1029/2010JC00618
  57. Laborde, S., Antenucci, J. P., Copetti, D., and Imberger, J., 2010, "Inflow intrusions at multiple scales in a large temperate lake", *Limnology and Oceanography*, 55(3): 1301-1312
  58. Nakayama, K. and Imberger, J., 2010, "Residual circulation due to internal waves shoaling on a slope", *Limnology and Oceanography*, *Limnology and Oceanography*, 55(3): 1009-1023
  59. Okely, P.N., Imberger, J. and Antenucci, J.P., 2010, "Processes affecting horizontal mixing and dispersion in Winam Gulf, Lake Victoria", *Limnology and Oceanography*, 55(5): 1865-1880
  60. Okely, P.N., Imberger, J. and Shimizu, K., 2010, "Particle dispersion due to interplay of motions in the surface layer of a small reservoir", *Limnology and Oceanography*, 55(2): 589-603
  61. Patil, S., Singh, V. P., and Imberger, J., 2010, "Horizontal Dispersion in Gyres-Internal Wave Flow Field in a Rotating Circular Lake", *Journal of Hydrologic Engineering* 15(8) pp 576-611



62. Shimizu, K. and Imberger, J., 2010, "Seasonal differences in the evolution of damped basin-scale internal waves in a shallow stratified lake", *Limnology and Oceanography*, 55(3): 1449-1462
63. Shintani, T., de la Fuente, A., Imberger, J. and Nino, Y., 2010, "Generalizations of the Wedderburn Number: parameterizing upwelling in stratified lakes", *Limnology and Oceanography*, 55(3): 1377-1389
64. Vilhena, L. C., Hillmer, I., and Imberger, J., 2010, "The role of climate change in the occurrence of algal blooms; Lake Burragorang, Australia", *Limnology and Oceanography*, 55(3): 1188-1200

**2009 (13)**

65. Alexander, R. and Imberger, J., 2009, "Spatial distribution of motile phytoplankton in a stratified reservoir: the physical controls on patch formation", *Journal of Plankton Research*, 31; 101-118
66. Botelho, D., Imberger, J. Dallimore, C.J. and Hodges, B.R., 2009, "A hydrostatic/non-hydrostatic grid-switching strategy for computing high-frequency, high wave number motions embedded in geophysical flows", *Environmental Modelling & Software*, 24:473-488
67. Bruce, L.C. and Imberger, J., 2009, "The role of zooplankton in the ecological succession of plankton and benthic algae across a salinity gradient in the Shark Bay solar salt ponds", *Hydrobiologia*, 626:111-128
68. Devkota, B. H., and J. Imberger (2009), Lagrangian modeling of advection-diffusion transport in open channel flow, *Water Resource. Res.*, 45, W12406, doi: 10.1029/2009WR008364
69. Devkota, B.H. and Imberger, J., 2009, "Lagrangian Modeling of the Dynamics of River and Floodplain Flow", *Journal of Hydraulic Engineering, ASCE*, 135(10): 771-782
70. Chung, S.W., Hipsey, M.R., and Imberger, J., 2009, "Modelling the propagation of turbid density inflows into a stratified lake: Deacheong Reservoir, Korea", *Environmental Modelling & Software*, 24(12): 1467-1482
71. Devkota, B.H. and Imberger, J., 2009, "Lagrangian Modeling of the Weakly Nonlinear, Nonhydrostatic Shallow Water Waves in Open Channels ", *Journal of Hydraulic Engineering, ASCE*, 135(11): 926-934
72. Huang, P., Sanford, T., and Imberger, J., 2009, "Heat and turbulent kinetic energy budgets for surface layer cooling induced by the passage of Hurricane Frances (2004)", *Journal of Geophysical Research-Oceans*, 114 C12023
73. Morillo, S., Imberger, J., Antenucci, J.P. and Copetti, D., 2009, "Using impellers to distribute local nutrient loadings in a stratified lake; Lake Como, Italy", *ASCE Journal of Hydraulic Engineering*, 135(7): 564-574
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86. Pattiaratchi, C.B., Imberger, J., Zaker, N.H. and Svenson, T., 1995, "Perth Coastal Waters Study. Project P2: Physical Measurements", Prepared for Water Authority of Western Australia. UWA, CWR reference WP 947 CP., 1-280
87. Pattiaratchi, C.B., Svenson, T. and Imberger, J., 1995, "Review of mixing processes in Port Phillip Bay", Report submitted to CSIRO, Port Phillip Bay Environmental Study UWA, CWR Reference WP 929 CP., 1-33
88. Ramirez, I. and Imberger, J., 1995, "Barbamarco Lagoon, Italy. Data report experiment 94185: Part IV - Acoustic Doppler Current Meters, thermistor chains, flow and meteorological data", UWA, CWR Reference WP 1044 IR

#### **1994 (5)**

89. Imberger, J. and Thomson, C., 1994, "Report on the Valdivia Estuary, Chile", Report prepared for Sinergos Consultores, Hernan Cortes 2781, Santiago. University of Western Australia Report WP 932 JI
90. Ramirez, I. and Imberger, J., 1994, "Barbamarco Lagoon, Italy data report. Experiment 94185: Part I - Portable Flux Probe data", UWA, CWR reference WP 778 IR
91. Ramirez, I. and Imberger, J., 1994, "Barbamarco Lagoon, Italy. Data report -Experiment 94185. Part II - Fine-Scale Profiler data individual profiles", Report prepared for IPROS, Italy. UWA, CWR Reference WP 960 IR
92. Ramirez, I. and Imberger, J., 1994, "Barbamarco Lagoon, Italy. Data report -Experiment 94185. Part III - Fine-Scale Profiler data horizontal and vertical transects", Report prepared for IPROS, Italy. UWA, CWR Reference WP 961 IR
93. Zic, K., Mander, T. and Imberger, J., 1994, "Pollutant dilution in Devil Bend Reservoir", Report prepared for Melbourne Water, Melbourne, Victoria. UWA, CWR Reference WP 715

#### **1993 (5)**

94. Lane, K., Zic, I., Hamilton, D.P. and Imberger, J., 1993, "Water quality predictions for Lake Camazzole after proposed dredging operations", Report to IPROS. UWA, CWR Reference WP 483 KL
95. Lewis, D.P., Imberger, J. and Patterson, J.C., 1993, "Plan for a long-term water quality control program for Los Vaqueros Reservoir", In conjunction with Contra Costa Water District, Concord, USA. UWA, CWR Reference WP 818 DL., 4:1353-1358
96. Lyons, M., Lane, K. and Imberger, J., 1993, "Data analysis of preliminary field work in Barbamarco Lagoon, Italy", UWA, CWR reference WP 850 ML
97. Patterson, J.C., Imberger, J. and Mander, T., 1993, "Destratification of Lake Burbury, Tasmania", Report to Hydro-Electric Commission, Hobart, Tasmania. UWA, CWR Reference WP 816 JP
98. Uittenbogaard, R.E. and Imberger, J., 1993, "The importance of internal waves for mixing in a stratified estuarine tidal flow. Part one: text and appendix. Part two: tables and figures", Report prepared for Dutch Ministry of Transport, Public Works and Water Management, Tidal Waters Division. Delft Hydraulics report number Z694 (VR 757.94), 468 pp.

**1992 (3)**

99. Imberger, J. and Ivey, G.N., 1992, "Environmental Fluid Mechanics: Physical Limnology", Document prepared for the National Research Council Committee on the "State of Fluid Mechanics", J. List (ed). UWA, CWR Reference ED 691 JI
100. Pattiaratchi, C.B. and Imberger, J., 1992, "Physical processes in the vicinity of the Beenyup Outfall. Review and data analysis", Report to Water Authority of Western Australia. UWA, CWR Report WP 635 CP
101. Schladow, S.G., Lewis, D.P. and Imberger, J., 1992, "Lan Tarn Reservoir destratification system", Report prepared for Sinclair Knight Pty Ltd. UWA CWR Reference WP 739 JI

**1991 (6)**

102. Imberger, J., 1991, "Dynamics of the Venice Lagoon. Final report", UWA, CWR Report WP 605 JI
103. Imberger, J., Robertson, D. and van Senden, D.C., 1991, "Long term water quality monitoring and control of MMBW reservoirs", Report to Melbourne and Metropolitan Board of Works UWA, CWR Report WP 537 JI
104. Imberger, J., Robertson, D., and van Senden, D.C., 1991, "Long term water quality monitoring and control of reservoirs", Report to Sydney Water Board. UWA, CWR Report Number WP 524 JI
105. Lane, K. and Imberger, J., 1991, "Physical limnology of Lago di Lago and Lago di S. Maria", Report to IPROS. UWA, CWR Reference WP 604 KL
106. Lewis, D.P., Patterson, J.C., Imberger, J., Wright, R.P. and Schladow, S.G., 1991, "Modelling and design of reservoir aeration destratification systems", Urban Water Research Association of Australia Research Report, No 23 pp. 305-310
107. Stephens, R. and Imberger, J., 1991, "Glennies Creek Reservoir destratification project: mechanical mixers for reservoir destratification", UWA, CWR Reference WP 582 RS

**1990 (12)**

108. Asaeda, T., Imberger, J. and Ikeda, H., 1990, "Bubble plume behaviours in two-layered environments", Research Report of Department of Engineering and Construction Engineering, Saitama University, Japan, 20: 19-32
109. Greenwood, K., Lewis, D.P., Schladow, S.G., Patterson, J.C., Imberger, J. and Robertson, D., 1990, "Nepean Reservoir destratification project - 1990 progress report", Report to Sydney Water Board. UWA, CWR Reference WP 460 KG, 19 pp.
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111. Hürzeler, B.E., Lewis, D.P. and Imberger, J., 1990, "Precipitation tank modelling", Report to Worsley Alumina Pty Ltd. University of Western Australia, CWR Reference WP 465 BH
112. Imberger, J., D'Adamo, N. and Oldham, C.E., 1990, "Dynamics of the Venice Lagoon. A preliminary analysis of data collected between Monday 11 June - Saturday 16 June 1990", Report to IPROS. UWA CWR Research Reference WP 475 JI., 31-34 pp.
113. Imberger, J., Ivey, G.N. and van Senden D.C., 1990, "Withdrawal characteristics and water quality implications of the proposed Upper Yarra Reservoir outlet", Report to Melbourne and Metropolitan Board of Works. UWA, CWR Reference WP 497 JI
114. Lewis, D.P., Morison, M.L., Tsutsui, S. and Imberger, J., 1990, "Esperance Harbour ship motion study", Final recommendations submitted to Esperance Port Authority. UWA,

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115. Lukatelich, R., Robertson, D., Boland, K., Imberger, J. and Patterson, J.C., 1990, "Stratification and mixing in Darwin water supply reservoirs and relationship with water quality", Urban Water Research Association of Australia Research Report No. 34., pp. 17-20
116. Robertson, D., Lewis, D.P. and Imberger, J., 1990, "Chaffey Dam enlargement: numerical modelling of stratification in the existing and proposed enlarged storages", Report to New South Wales Department of Water Resources and Sinclair Knight and Partners. UWA, CWR Reference WP 437 DR
117. Schladow, S.G., Greenwood, K., van Senden, D.C., Patterson, J.C. and Imberger, J., 1990, "Nepean Reservoir aerator design", Report submitted to Sydney Water Board. University of Western Australia, Centre for Water Research Reference WP 489 GS
118. Sherman, B.S. and Imberger, J., 1990, "Solar pond operation and design", Report to Commonwealth Department of Primary Industries and Energy, NERD&D Programme. UWA, CWR Reference ED 459 BS, 19 pp.
119. Stephens, R. and Imberger, J., 1990, "Destratification of reservoirs using mechanical mixers", UWA, CWR Reference ED 505 JI

#### **1989 (4)**

120. Ivey, G.N. and Imberger, J., 1989, "Hydrothermal survey of Pinjarra Cooling Pond", Report to Alcoa of Australia Ltd., May 1989. UWA, CWR Reference WP 308 GI
121. Lewis, D.P., Tsutsui, S., Morison, M.L. and Imberger, J., 1989, "Esperance Harbour ship motion study. Vol I: Final Report. Vol II: Appendices", Report to the Esperance Port Authority, June 1989. UWA, CWR Reference WP 297 DL
122. Pattiaratchi, C.B., Imberger, J. and Little, S., 1989, "Field study program off Werribee, Port Phillip Bay", Report to the Melbourne and Metropolitan Board of Works, April 1989. UWA, CWR Reference WP 288 CP
123. Wright, R.P., Schladow, S.G., Lewis, D.P., Imberger, J., Patterson, J.C., Robertson, D. and van Senden, D.C., 1989, "Glennies Creek Reservoir Destratification Project", Progress report Progress report submitted to the NSW Department of Water Resources, July 1989. UWA, CWR Reference WP 319 GP

#### **1986 (1)**

124. Imberger, J. and Patterson, J.C., 1986, "Proposal to Australian Water Research Advisory Council for a Centre of Concentration in Water Research - Centre for Limnological Modelling", UWA, CWR Reference ED 86 177

#### **1983 (4)**

125. Imberger, J., 1983, "Transport processes in Koombana Bay Vol. 1: The field programme", UWA, CWR Reference ED 83 046., pp. 562-570
126. Imberger, J., 1983, "Transport processes in Koombana Bay Vol. 2: A description of the winter dynamics", UWA, CWR Reference ED 83 047
127. Imberger, J., 1983, "Transport processes in Koombana Bay Vol. 3: A description of the summer dynamics", UWA, CWR Reference ED 83 048
128. Imberger, J., 1983, "Proposed Bunbury C Power Station: Summary of environmental considerations", UWA, CWR Reference ED 83 051

**1982 (4)**

129. Humphries, S.E. and Imberger, J., 1982, "The influence of the internal structure and dynamics of Burrinjuck Reservoir on phytoplankton blooms", Prepared for and funded by the Commonwealth Department of Housing and Construction. UWA, CWR Reference ED 82 023
130. Imberger, J. and Hearn, C.J., 1982, "Influence of water circulation within W.A. limestone reefs on rock lobsters and their habitats", UWA, CWR Reference ED 82 025
131. Imberger, J. and Johannes, R.E., 1982, "New island wake form described by native fishermen yields estimate of horizontal exchange", UWA, CWR Reference ED 83 041
132. Imberger, J. and Patterson, J.C., 1982, "Report on the dynamics of Lake Argyle UWA, CWR Reference R38

**1981 (4)**

133. Holloway, P., Barnes, I., Webster, I. and Imberger, J., 1981, "Dynamics of the northwest shelf. Report on a one year study to September, 1981", UWA, CWR Research Reference ED 81 008, 7 pp.
134. Imberger, J., 1981, "A Proposal for a Centre of Excellence for Stratified Flow Research", UWA, CWR Reference ED 81 007
135. Imberger, J. and Holloway, P., 1981, "Dynamics of the North West Shelf. Progress report and proposal for future studies", UWA, CWR Reference ED 81 006. Australian Water Resource Council Technical Paper No. 4
136. Steedman, R.K. and Imberger, J., 1981, "A study of the shelf break dynamics and trapped long waves offshore Dampier, North Western Australia", UWA, CWR Reference R49

**1980 (1)**

137. Imberger, J. and Hebbert, R.H.B., 1980, "Management of water quality in reservoirs. Australian", Water Resources Council, Technical Paper No. 49, Research Project 74/70

**1979 (1)**

138. Lawrence, G.A. and Imberger, J., 1979, "Selective withdrawal through a point sink in a continuously stratified fluid with a pycnocline", UWA, CWR Reference ED 79 002, 103 pp.

**1978 (1)**

139. Patterson, J.C., Loh, I., Imberger, J. and Hebbert, R., 1978, "Simulation as a guide to reservoir management", UWA, CWR Reference R 34

**1977 (1)**

140. Imberger, J., Kirkland Jr, W.B. and Fischer, H.B., 1977, "The effect of delta outflow on the density stratification in San Francisco Bay", Report to Association of Bay Area Governments, H.B.F. - 77/02, Hugo B. Fischer, Inc., 109 pp.

**1976 (2)**

141. Agnew, H.J., Billings, J., Imberger, J. and Wallace, D.F., 1976, "The dynamics of the Blackwood River Estuary", UWA, Environmental Fluid Mechanics Reference EFM-1, 394 pp.
142. Imberger, J., 1976, "A preliminary study of the dynamics of Lake Argyle", UWA, CWR Reference R64

**1970 (4)**

143. Imberger, J. and Fischer, H.B., 1970, "Selective withdrawal from a stratified reservoir", Water Pollution Control Research Series, EPA, 15040, 103 pp.
144. Pattiaratchi, C.B. and Imberger, J., "Investigations for Chilaw Anchorage", Report prepared by Lanka Hydraulic Institute Ltd. in association with CWR, UWA. Reference WP 1117 CP
145. Ewing, T.C., Antenucci, J.P. and Imberger, J., 2004, "Drinking water reservoir. Management: Real-time decision support", Lake Line, 24(4): 21-24, Published
146. Patterson, J.C., Imberger, J., Hebbert, R. and Loh, I., 1979, "Users guide to DYRESM. A simulation model for reservoirs of medium size", UWA, CWR Reference R 21, Fluid Mechanics Report EFM-3, 82 pp., Published

**Teaching:****Teaching: Post Doctoral Research Fellows (46)**

<b>Name</b>	<b>Field of Interest</b>
1. Abeysekera, S.	Signal Processing
2. Alexander, R.	Hydrobiology
3. Antenucci, J.	Limnology
4. Armfield, S.	Computational Fluid Dynamics
5. Atkinson, M.	Water Quality
6. Bonnet, M.P.	Water Quality Modelling
7. Botelho, D.	Physical Limnology
8. Brubaker, J.	Physical Limnology
9. Bugnon, F.	Signal Processing
10. de Vilhena, L.C.	Hydrobiology
11. Dallimore, C.	Modelling
12. Davis, J.	Water Quality
13. De La Fuente Stranger, A.	Modelling and Physical Limnology
14. De Silva, P.	Physical Limnology
15. Dittrich, A.	Hydraulics
16. Ferris, J.	Limnology
17. Gal, G.	Hydrobiology
18. Hearn, C.	Physical Oceanography
19. Hipsey, M.	Hydrobiology
20. Huang, P.	Coastal Oceanography
21. Hocking, G.	Physical Limnology
22. Hodges, B.	Computational Fluid Dynamics
23. Holloway, P.	Physical Oceanography
24. Humphries, R.	Aquatic Ecology
25. Humphries, S.	Aquatic Ecology
26. Javam, A.	Computational Fluid Dynamics
27. Lemckert, C.	Physical Limnology
28. Little, S.	Physical Oceanography
29. Lyne, V.	Aquatic Ecology
30. Monismith, S.	Physical Limnology
31. Marti, C.L.	Physical Limnology
32. Patterson, J.C.	Computational Fluid Dynamics
33. Power, P.	Hydrobiology
34. Romero, J.R.	Aquatic Ecology
35. Schladow, G.	Limnology
36. Shay, T.	Physical Oceanography
37. Shimizu, K.	Meteorology
38. Taylor, J.	Stratified Flow
39. Teoh, S.G.	Geophysical Fluid Dynamics
40. Townley, L.	Groundwater
41. Wadhwa, H.	Offshore Engineering
42. Yeates, P.	Physical Limnology
43. Wessen, K.	Computational Fluid Dynamics
44. Zelt, J.	Surface Waves
45. Zhu, S.	Hydrodynamics
46. Zic, K.	Modelling

**Teaching: PhD Students (75):****Current:**

1. Zhou, Wencai: “Impact of global warming on the stability of deep lakes”
2. Gloria Gonzalez: “Custodianship of the environment in Brazil compared to Paraguay: Influence of Gender”
3. Arthur Simanjuntak: “The Transport of Biological and Physical Particles in Natural Systems” (Temporarily suspended)
4. Phan Phuong: “Decision support for large reservoir management” (External)

**PhD's Completed:**

5. Hogg, Charlie: (2013) “Inflow into a large stratified lake: Lake Iseo, Italy” (External; joint supervision with Huppert, H.)
6. Silva, C (2013): “Significance of biological mortality agents in controlling rates of primary production” (Joint supervision with Marti, C.)
7. Machado, D. (2013): “Optimizing wastewater treatment to match the assimilative capacity of receiving waters”
8. de Vilhena, L. (2013): “Physical-biological coupling in aquatic ecosystems: the role of hydrodynamics in structuring phytoplankton communities” (Joint supervision with Marti, C.)
9. Alexander, R. (2012): “Hydrodynamic modeling and fluorescent spectral methods for characterising the spatial distribution of phytoplankton”
10. Laborde, S. (2012): “On physical and cultural flows of Lake Como, Italy” (Joint supervision with Toussaint, S.)
11. Andrich, M. (2012): “Inequality as an obstacle to sustainable development: the case of Western Australia”
12. Alosairi, Y. (2011 external): “ Hydro-environmental modelling of the Arabian Gulf and Kuwait Bay” (Joint supervision with Falconer, R.)
13. Huang, P. (2010): “Impacts of Hurricane Frances on vertical mixing and air-sea Co2 exchange”
14. Valerio, G. (2010)
15. Okely, P. (2010): “Mechanisms for horizontal mixing in reservoirs”
16. Kristiana, R. (2009): “Sustainability assessment in water management: The application and development of the index of sustainable functionality in various water resources”
17. De la Fuente Stranger, A. (2009 External): “Nonlinear and nonhydrostatic evolution of basin-scale waves in stratified rotating lakes” (Joint supervision with Nino Y, Stocker R, Rutlant J, Cienfuegos R)
18. Shimizu, K. (2008): “Application of model analysis to strongly stratified lakes”
19. Morillo, S. (2008): “Engineering solutions to water quality problems in lakes”
20. Yeates, P. (2008): “Deep mixing in stratified lakes and reservoirs”
21. Adiyanti, S. (2007): “A method to estimate chlorophyll-*a* in the surface layer of a stratified lake from surface layer temperature time series, meteorological fluxes, a knowledge of blue-to-red peak absorption ratio and dissolved organic matter concentration”
22. Copetti, D. (2007 External): “Modelling of the thermal structure and nutrient cycles in lacustrine environment (Lake Pusiano - North Italy) and their influence on the phytoplankton and zooplankton populations”
23. Botelho, D.A. (2007): “Inflows in reservoirs: structure, modeling and consequences to dissolved oxygen dynamics” (Joint Supervision with Hodges, B.)



24. Hillmer, I.A. (2007): "Scales controlling the interaction between primary producers and nitrogen in a shallow coastal ecosystem in Western Australia" (Joint supervision with Bath, A.)
25. Gomez-Giraldo, E.A. (2007): "Energy redistribution by high frequency internal waves in stratified lakes" (Joint supervision with Antenucci, J.)
26. Fernandez, R.L. (2007): "Mixing associated with inflows into stratified lakes at small to medium inflow Froude numbers"
27. Anohin, V. (2006): "Flux paths in a stratified reservoir with inflow and outflow in the presence of internal waves" (Joint Supervision with Ivey, G.N.)
28. Spillman, Claire. (2006): "A modeling assessment of hydrodynamics and biogeochemistry of the Northern Adriatic Sea, and effects in clam dynamics in Barbamarco Lagoon, Italy"
29. Chan, T.U. (2006): "Processes occurring in the Swan and Canning Rivers during in-river water quality remediation trials" (Joint supervision with Hamilton, D.)
30. Furnans, J. (2006 External): "Drifter modeling and error assessment in wind driven currents" (Joint supervision with Hodges, B.)
31. Appt, J. (2005 External): "Internal wave energy cascade in Lake Konstanz."
32. Bruce, L.C (2005): "A study of interaction between the physical and ecological processes of three aquatic systems"
33. Devkota, B.H. (2005): "A new langrangian model for the dynamics and transport of river and shallow water flows"
34. Marti, C L. (2004): "Exchange processes between littoral and pelagic waters in a stratified lake"
35. Boegman, L. (2004): "On the energetics of internal waves in enclosed basins" (Joint supervision with Ivey, G.N.)
36. Wake, G. (2004): "The energy Distribution of Large Scale Waves" (Joint supervision with Ivey, G.N.)
37. Barry, M. (2004)
38. Laval, B. (2002): "Modelling Transport in Lakes and Estuaries" (Joint supervision with Hodges, B.R.)
39. Dallimore, C. (2002): "Field experiments and modeling of dense underflows in lakes and reservoirs"
40. Rio, C (2002)
41. Martini, P. (2002): " Non linear behaviour of waves in a three layer basin."
42. Stocker, R. (2001): "Horizontal transport and dispersion in a stratified lake"
43. Antenucci, J. (2001): "Internal gravity waves in large lakes"
44. Saggio, A. (2001): "Internal waves and mixing in stratified lakes"
45. Mancini, G. (2000): "Dispersion in a convective boundary layer"
46. Horn, D. (2000): "The degeneration of large-scale internal waves in lakes" (Joint supervision with Ivey, G.N., Winter, K.)
47. Yeates, P (2000)
48. Ramirez, I. (1999): "Hydrodynamics of a Shallow Lagoon"
49. Etemad-Shahidi, A. (1998): "Anatomy of turbulence in stratified flows"
50. Zaker, N. (1998): "Dynamics of the Coastal Boundary Layer off Perth, Western Australia" (Joint supervision with Pattiaratchi, C.)

51. Teoh, S. (1995): "Laboratory study of the interactions between two internal wave rays" (Joint Supervision with Ivey, G.N.)
52. Bruno, S. (1995): "Instability of stratified shear flows" (Joint supervision with D'Alpoas, L.)
53. Hurzeler, B. (1994): "Turbidity currents with reversing buoyancy" (Joint Supervision with Ivey, G.N.)
54. Javam, A. (1994): "Role of internal waves in subsurface mixing"
55. Oldham, C. (1993): "The effects of hydrodynamics on the distribution of dissolved oxygen in a lake"
56. Lemckert, C. (1992): "Axisymmetric intrusive gravity currents generated by bubble plumes"
57. Clarke, S. (1992): "Nonlinear and topographic effects in selective withdrawal"
58. Coates, M. (1992): "Natural convection due to differential heating from unequal light absorption" (Joint supervision with Patterson, J.)
59. Stevens, C. (1991): "The effect of a surface shear stress on a stratified fluid"
60. McDonald, N.R. (1990): "Sink flows in rotating stratified fluids"
61. Sherman, B. (1989): "Modelling and control of a solar pond"
62. Luketina, D. (1987): "Frontogenesis of freshwater overflows"
63. Scott, C.F.. (1988): "On the circulation and classification of shallow estuaries"
64. Van Senden, D.C. (1987): "Dynamics of unsteady jets in shallow receiving waters"
65. Craig, P.D. (1985): "Internal wave dynamics over coastal topography"
66. Schladow, S.G. (1985): "The dynamics of a salt gradient solar pond"
67. Lyne, V.D. (1983): "The role of hydrodynamic processes in planktonic productivity"
68. Webster, I.T. (1983): "Wind-driven circulation on the North West shelf of Australia"
69. Boland, K. (1985)
70. Humphries, S. (1982): "Mechanism of bloom-formation in *Microcystis Aeruginosa*: An examination of alternative hypotheses"
71. Sturman, J.J. (1980): "Towards understanding the boundary conditions of longitudinal fins under cross-flow forced convection"
72. Ismail, N. (1980): "Wave-current interaction" (Joint supervision with Wiegel, R.)
73. Gorski, W. (1979) "Finite elastic deflections of bars"
74. Gosink, J. (1979): "A study of turbulence in the horizontal buoyant surface jet"
75. Safaie, B. (1979): "Mixing of horizontal buoyant surface jet over sloping bottom"
76. Silvester, R.S. (1978): "An experimental study of end-wall effects on selective withdrawal of linearly stratified liquid from a reservoir"
77. Spigel, R. H. (1978): "Wind mixing in lakes"
78. Bühler, J. (1974): "Model studies of multiport outfalls in unstratified, stagnant or flowing receiving water"
79. Darden, R. (1973): "Flow into a stratified reservoir."

### **Teaching: MEngSc Students (24)**

#### **Completed:**

1. Bloomfield, G. (2010) "Renewable energy: Future electricity generation in Western Australia"

2. Daily, C. (2001) "Numerical modeling of solitary waves under the hydrostatic and Boussineq approximations"
3. Stephens, R. (1995) "Dynamics of the Swan River Estuary: an environmental assessment"
4. Nield, S. (1991) "Effects of recharge and lake linings on lake-aquifer interactions"
5. Morison, M. (1990) "A study of moored ship motions in Esperance Harbour"
6. Schwartz, R. (1989) "The flushing characteristics of Hillary's Boat Harbour"
7. Meares, I.G. (1987) "Modelling the baroclinic response of a stratified water body to wind stress"
8. Parker, G.J. (1985) "Differential mixed layer deepening in lakes and reservoirs"
9. D'Adamo, N. (1985) "Mixing and transport in the Murray River Estuary, Western Australia"
10. Rayner, K.N. (1981) "Diurnal energetics of a reservoir surface layer"
11. Carlson, C.T. (1978) "Equilibrium region of the shoreline run up spectrum"
12. Ivey, G. (1976) "A field investigation of withdrawal from a stratified reservoir"
13. Wood, B. (1993) "Comparison of predictive mixing and dispersion techniques for effluent discharges in the Marmion Marine Park" (Joint supervision with Pattiaratchi, C.)
14. Lovell, K. (1991) "Review of empirical tropical cyclone wind and pressure field models"
15. Smith, B. (1988) "Hydraulic model testing and prototype construction of a vortex type drop shaft"
16. Alach, D. (1982) "Scour around cylindrical piles embedded in calcareous sediments"
17. Hillman, M. (1982) "Groundwater as a source of nutrients to the coastal lagoon system, Perth, Western Australia"
18. Stephens, R. (1991) "An investigation into the efficiency of impellers in mixing stratified reservoirs"
19. Morison, M. (1989) "Turbulent exchange of water between the sidearm of a reservoir and the main basin"
20. Schwartz, R. (1987) "A comparison of results from physical and numerical modelling of the proposed Dawesville Channel ocean entrance"
21. Abercromby, A. (1985) "Model tests of scour and separation around seafloor structures"
22. Harrison, G. (1983) "Low-frequency sea-level oscillations along the Western Australian coastline"
23. D'Adamo, N. (1983) "Hydrodynamic considerations for the proposed Murray River Canal development, South Yunderup"
24. Manzi, A. (1980) "Queuing theory applied to shovel and truck productivity"

### ***Teaching: Honours Students (170)***

#### ***Completed:***

1. Hugeux, M. "Cottesloe Rockpool: Surface waves"
2. Dicko, L. "Cottesloe Rockpool: Sediment transport"
3. Daniel Durham: "Cottesloe Rockpool; heating designs"
4. Vincent Peneloux, V. "Sustainable energy sources in Australia"
5. Jacobs-Smith, E. : "Dewatering in Pilbara"
6. Uyen Xuan, C. "Tree Tanks and the analogy with biotic pumps"

7. Zhigang Ji: "Feasibility design of Kimberley Tidal Power."
8. Metcalf, E. "Wave Climate Around Cockburn Sound including Rottneest and impact of global warming on beach stability"
9. But, C.: "Cockburn Sound Flushing"
10. Jim Wu: "Origin of the apparent increasing frequency of Tornados in Perth"
11. Lindsay Fletcher : "Design of personal speed limit technologies"
12. Serouilou, J. "Fish metabolism algorithms"
13. Petrelis, N. "Design of Fremantle barrage and lock."
14. Ducey, M. "Flushing estuary with deep groundwater"
15. Braman, M. "The dynamics of flushing of the Swan River estuary"
16. Harding, K. "Source, transport and fate of pathogens in the Swan River"
17. Ruiz, A. "Source, transport and fate of pathogens in the Canning River"
18. Nguyen, L (2014). "Environmental design of a rock pool at Cottesloe, Western Australia"
19. Fitzmaurice, L. (2014) "Optimizing waste water diffuser design to achieve a threshold dilution"
20. Curty, L. (2014) "An algorithm to compute the Lagrangian Coherent Structures from the Eulerian velocity field"
21. Courtney, D. (2014) "Structural design of a rock pool at Cottesloe, Western Australia"
22. Kervellec, G. (2014) "Impact of environmental forcing on the stability of deep sub-alpine lakes"
23. Raucoulles, C. (2014) " The design of a estuary barrage at Fremantle"
24. Doolan, J. (2014) "Internal hydraulic control in a salt wedge estuary; Pt. Walter, Swan Estuary"
25. Begey, M. (2014) "Changes of the environmental forcing on deep sub-alpine lakes due to global warming"
26. Barnes, L. (2014) "Manipulating the physical environment of a salt water estuary to mitigate the likelihood toxic algal blooms; Swan Canning Estuary"
27. Khorasani, S. (2014) "The environmental impact of fracking in Western Australia"
28. Janssen, C. (2012) "Regional look at the nutrient dynamics of the Perth Coastal waters- the two other discharges into Perth coastal waters and parallel modeling"
29. Pollet, M. (2012) "Management strategy for Hyde Park wetlands and more resilient urban wetland"
30. Ollagnon, P. (2012) "Lake Monger nutrient dynamics and the competition between macrophytes and algae"
31. Mattavelli, M. (2011) "Nutrient Cycling in urban wetland lakes"
32. Harris, J. (2007) "Ecological models as a tool for estuarine management: The validation of ELCOM-CAEDYM to the Swan River estuary, Western Australia"
33. De Cerqueira, E. (2006) "Sustainable automobile used in WA using different energy sources"
34. Seah, E.S. (2006) "Desalination using the reverse osmosis process"
35. Rafty, M. (2006) "Eutrophication of Lake Victoria; Africa (Water quality modeling)"
36. Ducas, A. (2005) "An online lake and reservoir information system"
37. Clee, T. (2005) "Technical considerations for modeling the proposed Derby Tidal power station"
38. Brown, A., (2005) "The Index of Sustainable Functionality (ISF): A prospective tool of assessing the sustainability of the impact of World Bank projects"
39. Anderson, J. (2004) "The role of sand bar dynamics in the water quality of Moore River"

- Estuary”
40. Hoppe, E. (2004) “Modelling effects of biogenic stabilisation on the resuspension behaviour of cohesive sediments in Lake Kinneret, Israel”
  41. Bussemaker, P.J. (2003) “The affect of a permanent opening on circulation and flushing in Wilson Inlet”
  42. Garcia-Webb, J. (2003) “A numerical study of the water quality in Wilson Inlet”
  43. Harvey, C.C. (2003) “An empirical study of rainfall and runoff in south-west Western Australia”
  44. Huizinga, L.A. (2003) “A Breakwater design for the Wilson Inlet”
  45. Melic, N. (2004) “Turbulence at a Glacier face (site: Lago Argentino)”
  46. De Souza, M.J. (2002) “Influences on the Decline in Winter Rainfall in the South-west”
  47. Smith, A.S. (2002) “Hydrodynamic Modelling at Mundaring Weir”
  48. Abid, A. (2001) “Prediction of Algal Blooms via water quality modelling: A Decision support system for Mundaring Reservoir”
  49. Bartram, C. (2001) “Salinity alleviation in the Blackwood River”
  50. Ewing, T. (2001) “Real-time predictive hydrodynamic modelling of Mundaring Weir”
  51. Medley, R. (2001) “The complex relationship between hydrodynamics and ecology in Lake Maracaibo, Venezuela: Implications for Lake Restoration Strategies”
  52. Okely, P. (2001) “Numerical Modelling of a Surface Buoyant Discharge in Koombana Bay”
  53. Roza-Butler, N. (2001) “The Interplay Between Seasonal Variations and Latitude and the Corresponding Implications for Lake Management in South America”
  54. Alexander, R. (2000) Modelling artificial destratification - North Pine Dam
  55. Chandler, K. (2000) “Scour potential of railway culverts in the Pilbara”
  56. Gondinoudis, S. (2000) “Diurnal modelling of a shallow, eutrophic Mediterranean Lake”
  57. Hawker, K. (2000) “Flow dynamics in the Venice Lagoon”
  58. Henderson, G. (2000) “Energy Fluxes in natural systems”
  59. Hunn, S. (2000) “The effect of base-level subsidence on landscape evolution. A study in xperimental geomorphology”
  60. Loo, I. (2000) “Design tools for wetland management”
  61. Simanjuntak, A. (2000) “Energy transfer due to internal waves in three-layered lakes”
  62. Andrews, M. (1999) “Computer tools for environmental engineers on the web”
  63. Jujnovich, S. (1999) “The energy efficiency of the earth”
  64. Harvey, R. (1998) “Experimental investigation of a saline underflow”
  65. Yeates, P. (1998) “Modelling the effects of internal phosphorus loadings on the primary productivity of a stratified lake: Applied to Lake Kinneret Israel”
  66. Buckels, M. (1997) “Sustainable development of energy globally and in Western Australia”
  67. Krasnostein, A. (1997) “Lake diagnostic system applied to Lake Kinneret, Israel”
  68. Lang, H. (1997) “Sustainable development of water resources in Western Australia”
  69. Stenbeck, D. (1997) “Water quality of Lake Kinneret, Israel. Numerical modelling of dinoflagellates in a subtropical lake”
  70. Sylwestrzak, C. (1997) “Cultural and spiritual considerations to sustainable development”
  71. Antenucci, J. (1996) “Hydrobiological modelling of Rapel Reservoir, Central Chile”
  72. Calder, S. (1996) “Lake Cave: Hydrology, hydrogeology and management”

73. Collins, G. (1996) "Flushing of the Harvey Estuary via the Dawesville Cut"
74. Dallimore, C. (1996) "Integral models of bubble plumes in a stratified fluid paragraph"
75. Dragicevich, P. (1996) "Hydrodynamic and water quality modelling of Lake Pamvotis, Greece"
76. Eade, K. (1996) "Nutrient loading to the Swan-Canning estuary"
77. Astill, W.D. (1995) "Feasibility of engineering solutions to the Swan River estuary water quality problems (Vol 1 & 2)"
78. Boardman, B. (1995) "Numerical modelling of Lake Rinihue (Chile). A comparison of simple loading models and a complex ecosystem model: DYRESM-WQ"
79. Bruce, L. (1995) "Combined modelling and optimisation of groundwater extraction, Wanneroo Region, WA"
80. Bruce, L. (1995) "Experimental study of short crested waves on a sloping beach"
81. Kalnejais, L. (1995) "The hydrodynamics of the Swan River Estuary: An hydraulic model study"
82. Mather, B. (1995) "Measuring velocity profiles using a coherent Doppler sonar system: The acoustic Doppler current meter"
83. McIlveen, A. (1995) "A numerical study of the Peel-Harvey Estuary: Investigating the effects of the Dawesville Channel"
84. Noid, C. (1995) "Controlling algal blooms in the Swan River Estuary using destratification techniques"
85. Scatena, M. (1995) "Circulation of the Leschenault Estuary: A numerical model study"
86. Waugh, A. (1995) "A comparison of quadratic time frequency signal representation techniques as applied to an oceanographic signal"
87. Barr, S. (1994) "The ecological response of south-western Australian estuaries to nutrient enrichment"
88. Gomes, C. (1994) "Modelling phytoplankton using the COASEC model"
89. Mercer, S. (1994) "Numerical modelling of the hydrodynamics of rectangular channels."
90. Pang, D. (1994) "A numerical model study into the hydrodynamics of the Sungai Merbok Estuary"
91. Smith, D. (1994) "A numerical simulation of basin-scale internal motions in Lake Biwa"
92. Weymouth, R. (1994) "An investigation of chaotic mixing". Technical report
93. Marshall, J. (1993) "Physical Process of Wilson Inlet.13/11/2001"
94. Reed, L. (1992) "Global circulation patters of dissolved oxygen in the Swan River and its relation to the observed characteristics of the physical biomass of the estuary"
95. Stegena, R. (1992) "Vortex ring generation." Technical Report
96. Peraldini, S. (1991) "Circulation of Oyster Harbour - Yakimia Creek". Technical report
97. Brown, S. (1990) "Yunderup Canals flushing study". Technical report
98. Chedzey, L. (1990) "A flushing study of the Yunderup Canals - gravitational flow in a canal estate"
99. Pickering, D. (1990) "Application to edge waves and their formation. Technical report"
100. Stephens, R. (1990) "Destratification of reservoirs using mechanical mixers". Technical report"
101. Gherbaz, J. (1989) "The effect of strip heating on the wake structures of aerofoils"
102. McLean, G. (1989) "Effect of sediment gradation on scour at bridge piers.

103. Si, L. (1989) Deep cooling pond”
104. Tang, W. (1989) “Effect of pier spacing or scour depths around bridge piers”
105. Teoh, S. (1989) “Forces on offshore pipelines”
106. Van Der Klip, B.B. (1989) “A laboratory study of turbulence and mixing in dense plumes”
107. Field, D. (1987) “Turbulent boundary layer control”
108. Pearce, R. (1987) “Sedimentation in the Avon River”
109. Petterson, M. (1987) “Tidal exchange”
110. Connell, P. (1985) “Enhanced drag configurations”. Technical report
111. Cooper, C. (1985) “Salt mitigation of the Yenyening Lakes by using a solar pond powered controlled environment salt production plant”
112. Kerr, R. (1985) “Esperance model study - investigation of sediment transport and harbour siltation”
113. Sutherland, C. (1985) “Esperance Harbour surging investigations”
114. Arnott, R. (1984) “Edge waves”
115. Bickley, A. (1984) “Evaporation and wind drift losses from domestic garden sprinklers”
116. Billi, G. (1984) “Unsteady selective withdrawal from a line sink”
117. Coppens, S. (1984) “Thermistor response and filtering”. Technical report
118. Hogg, C. (1984) “Propagation of salt wedges”. Technical report
119. Steketee, J. (1984) “Mixing characteristics of an air bubble plume in stratified conditions”. Technical report
120. Thillainath, S. (1984) “The behaviour of gravity currents in stratified ambient water”
121. Todd, R. (1984) “The application of an electrical resistivity method for tracking the wetting front on the Gngangara Mound”. Technical report
122. Best, M. (1983) “An experimental comparison between the strata fin and a conventional surfboard fin”
123. Buchanan, J. (1983) “Applications of double diffusive transport in lakes”. Technical report
124. Carstairs, S. (1983) “Sea grasses of Peel-Harvey system”
125. Crostella, M. (1983) “Jets and plumes in confined regions”
126. Flecker, M. (1983) “Modelling of a multiport diffuser in stratified conditions”
127. Forrest, R. (1983) “Lift forces on offshore structures”
128. Hillman, K. (1983) Carbon flows in Swan River ecosystem.
129. John, J. (1983) “Diatom taxonomy and ecology (WAIT)”
130. Kirkman, H. (1983) “Productivity of kelps (CSIRO)”
131. Lewis, D. (1983) “Model tests on a peripherally protected iceberg”
132. Morrison, J. (1983) “The influence of trailing edge flaps or trim tabs on the performance of a yacht keel”
133. Pegrum, S. (1983) “Wave and current forces on cylindrical sections”. Technical report
134. Chambers, J. (1982) “Phosphate in water of Harvey catchment”
135. Edgeloe, W. (1982) “Catchment salinity”
136. Engst, N. (1982) “Estuarine boundary layer
137. Gordon, D. (1982) “Ecology of macroalgae in Peel-Harvey”
138. Hansen, J. (1982) “Nutrient release from kelps (CSIRO)”
139. Kendrick, G. (1982) “Algae at Shark Bay”

140. Luketina, D. (1982) "The influence of compliant skins and dilute polymer solutions on skin friction drag on a flat plate"
141. Makin, B. (1982) "Overheated thermistor velocity probe". Technical report
142. Masini, R.J. (1982) "Growth of sea grasses"
143. Meares, I. (1982) "Salt gradient solar ponds"
144. Parker, G. (1982) "Wave induced pressures on a pipeline in a permeable seabed"
145. Parkhurst, N. (1982) "Transport planning - Urban transport studies: towards a new approach to urban transport policy making"
146. Percival, R. (1982) "Selective withdrawal over a depression". Technical report
147. Schepis, J.P. (1982) "Scour around cylindrical obstructions embedded in calcareous sediments"
148. Scott, C. (1982) "Gravitational circulation in the Peel-Harvey Estuary"
149. Sherman, B. (1982) "Reservoir dynamics"
150. Staniforth, R. (1982) "Application of a wind-driven numerical model to simulate the circulation in the Peel-Harvey Inlet". Technical report
151. Van Senden, D.C. (1982) "Lagoonal circulation"
152. Woods, A. (1982) "Urban drainage catchment"
153. Birss, P. (1979) "Rapid mixing with swirling nozzles"
154. Finch, S. (1979) "Circulation in the Swan River". Technical report
155. Gorski, W. (1979) "Finite elastic deflections of bars"
156. Wallwork, R. (1982) "The forces on submerged circular cylinders". Technical report
157. McGilvray, M. (1979) "Entrainment at a density interface". Technical report
158. Miles, D. (1979) "Tides on the Lower Serpentine River". Technical report
159. Scott, P. (1979) "Profile of a salt wedge interface". Technical report
160. Silberstein, R. (1979) "The dynamics of the Swan River Estuary". Honours thesis
161. Twycross, P. (1979) "Tides on the Lower Serpentine River". Technical report
162. Lawrence, G. (1976) "Withdrawal of a density stratified fluid from a triangular tank"
163. Lyne, V. (1976) "Horizontal intrusions in a bounded stratified fluid"
164. Anderton, P. (1975) "The water dynamics of the Yenyening Lakes"
165. Bucens, P. (1975) "Possible dispersion mechanisms of a saline inflow into a temperature stratified reservoir"
166. Buchan, S. (1975) "Possible dispersion mechanisms of a saline inflow into a temperature stratified reservoir"
167. Roxburgh, K. (1975) "Cooling water recirculation at Kwinana Power generating station". Honours thesis
168. Ivey, G.N. (1974) "The disposal of waste heat from power generation"
169. Rayner, K.N. (1974) "Turbulent buoyant jet theory with applications to the analysis of smoke plume behaviour"
170. Silvester, R.S. (1973) "End wall effects on withdrawal from a linearly stratified tank"

***Teaching: External Short Courses:***

1. "Lake Hydrodynamics", 5 Day Workshop, UNITEN, College of Information Technology (COIT), Universiti Tenaga Nasional, Malaysia
2. "Vertical and Horizontal Transport Processes in Inland Waters" 5 Day Short Course, Institut für Wasserbau (IWS), University of Stuttgart, 24/09/2001



3. “Modeling the Hydrodynamics of Stratified Lakes” 3 Day Short Course, Univ of Idaho 3/04/2001
4. “Environmental Fluid Dynamics” 2 week course, Department of Civil Engineering, University of Padova, 28/12/2000
5. “Environmental Fluid Dynamics” 2 week course, Department of Civil Engineering, University La Sapienza, 7/02/2000
6. “Environmental Fluid Dynamics” 1 week course, Department of Civil Engineering, University of Catania, 2/02/2000
7. “Environmental Fluid Dynamics” 2 week course, Department of Civil Engineering, University of Padova, 14/01/1999

### ***Research Methodology:***

About 30 years ago I realized that, with changing technology, the same degree of experimental control could be developed for field as for laboratory investigations without the constraint of reduced scales. This led me to commit a considerable amount of my time to developing the following technologies:

1. A high speed, stable, research vessel, Djinnang IV, transportable by shipping container to any field site in the world.
2. Over the same period I developed a series of in-situ sensors and loggers with GSM communication capability for both real-time high precision model forcing data (river and groundwater water level, temperature and conductivity) and validation data (water column temperature, conductivity and surface meteorological data streams, and surface wave amplitude and direction spectra).
3. A free falling water profiling instrument, called the Portable Flux Profiler (PFP) and its autonomous counterpart, the Controlled Lagrangian Droque (CLD). This is a unique profiler equipped with microstructure, velocity, temperature and conductivity sensors, a full suite of fine scale sensors (temperature, conductivity, PAR, turbidity, pH, DO, Total Chlorophyll), a modified fluoroprobe that allows the measurement of the spectral characteristics of yellow substance and 4 groups of algae and an underwater holographic microscope, that together with image recognition software permits profiles of algal species to be obtained at 5cm vertical resolution.
4. Developed the hydrodynamic models DYRESM, DYRIM and ELCOM and the coupled ecological model CAEDYM, as well as the data base management model ARMS and the web application RMSO. Together this suite of software allows us to carry out fieldwork having both the field data and the numerical predictions available simultaneously and perhaps more importantly, by using the numerical forecast facility we can choose the timing and location in the field to maximize the signal to noise ratio for the process under study. This strategy thus gives us not only the same control as in the laboratory, but also allows us to study processes at prototype scales, eliminating the constraint of laboratory experiments.
5. I have participated in a total of 128 field experiments in the role of scientific director. On the Djinnang IV, I deploy the PFP.

### ***Professional Service:***

I actively participate in local, national and international conferences. 99 Plenary and named presentations; 444 Seminars, talks and presentations) and 156

professional committee involvements as well as 40 service to industry consultancies.

***Professional Service: Named Lectures & Plenary at Conferences (101) (1980 to Present)***

**2016**

1. “A look at the Beautiful Western Australia: Threats, Opportunities and Responsibilities”. Plenary talk to the University of the Third Generation, Annual General Meeting. West Australian State Library Theatre, 10 April 2016

**2015**

2. “Adaptive Real-time, Self-Learning River Basin Living: Challenges” Plenary Speaker , International Conference on Sustainable Water Management, Murdoch University, 29/11/2015
3. “Adaptive Real-time, Self-Learning River Basin Living: Challenges” Plenary Speaker , International Conference on Sustainable Water Management, Landau, Germany, 28/08/2015

**2014**

4. “Gravitational motions in a large sub-tropical reservoir: Lake Argyle, WA” Keynote Address, IAHR, Singapore 7/01/2014

**2013**

5. “Water For People, Industry, Agriculture and Nature: Different Perspectives Have Different Needs”, keynote address, 2013 Primary Science Conference, Perth, 24/03/2013

**2012**

6. “A decision support system for optimising large lakes for water supply, hydropower, flood control, fish production and carbon sequestration”, keynote speaker at ANCOLD conference, Perth, 25/10/2012
7. “Building Resilience: Recognizing There is a Next Generation”, keynote speaker, Second Correll Presidential Seminar, University of Maine, US, 03/08/2012
8. “Have we lost control? Approaches for Implementations of Global Resilience”, plenary talk, IESP workshop: Resilience as Requirement for Sustainable Development – A Contribution to Tackle the Earth Crises, Wildbad Kreuth, Germany, 28/03/2012

**2011**

9. “Real-time Adaptive Management of the Venice Lagoon”, plenary address, The Venice conference: improving the capacity to assess and to adapt to climate change in urban coastal regions, Venice, Italy, 12/09/2011

**2010**

10. “Climate Change: Prevention or Adaptation?”, Edison Lecture, University of Notre Dame, USA, 21/09/10
11. “Leaving Behind the Old, Building the New”, Syme Oration as part of the 2010 Annual Scientific Congress of the Royal Australasian College of Surgeons, Perth, Australia, 03/05/10

**2009**

12. “Adaptive, Real Time, Self Learning Lagoon Living”, keynote speaker, 1st International Conference on the Lagoons, Taglio Di Po, Italy, 02/10/09
13. “Adaptive, Real Time, Self Learning River Basin Living”, keynote speaker, Australian Academy of Technological Sciences and Engineering Eminent Speaker Series lecture, Presbyterian Ladies’ College, Perth, Western Australia, 06/08/09
14. “Climate Change: The realities, the challenges, the opportunities”, Reconciling Cowboys and Cowards: Australasian Universities Risk and Insurance Management Society Conference 2009, Duxton Hotel, Perth, Western Australia, 05/07/09,
15. “Climate Change: The realities, the challenges, the opportunities”, Climate 21: Department of Agriculture and Food 2009 Conference, Burswood Entertainment Complex, Perth, Western Australia, 27/03/09
16. “Climate Change: The realities, the challenges, the opportunities”, keynote talk, Paydirt Uranium Conference, Adelaide Hilton Hotel, South Australia, 17/03/09
17. “Climate Change: The realities, the challenges, the opportunities”, plenary talk, Institute of Public Works Engineering Australia WA State Conference 2009, Esplanade Hotel, Fremantle, Western Australia, 13/03/09
18. “Climate Change: The realities, the challenges, the opportunities”, Dugald Clerk Lecture, Institute of Civil Engineers, London, 24/02/09
19. “Managing Risk in the Urban Fabric”, keynote talk, States of Australian Cities Conference 2009, University of Western Australia, Perth, Western Australia, 25/11/09
20. “Nature’s Garden; The South West of Western Australia”, Nursery and Garden Industry of Western Australia’s Annual General Meeting, Café Noel, Ardross, Western Australia, 16/09/09
21. “Resources, Climate, Economy, Wealth, Environment”, Mine Closure International Conference, Sheraton Hotel, Perth, Western Australia, 09/09/0,
22. “Water Resource Challenges for Western Australia; More Rain in the Wrong Place”, Australian Academy of Technological Sciences and Engineering Eminent Speaker Series, Edith Cowan University, Perth, Western Australia 06/08/09

### **2008**

23. “Water in a changing climate”, RSA President’s Lecture (Prince Philip) 2008, RSA Century House, London, United Kingdom, 11/06/08
24. “Life in a changing climate”, President’s Sustainability Symposium, University of Idaho, Egyptian Theatre, Boise, Idaho, USA, 20/10/08
25. “Life in a changing climate”, The Victor Wouk Lecture, California Institute of Technology, California, USA, 21/10/08

### **2007**

26. “Physical Limnological Recipes”, Redfield Award Presentation, American Society of Limnology, Santa Fe, New Mexico, US, 04/02/07
27. “Water in a Changing Climate: Implications for Western Australia”, 2007 South West Focus Conference, Abbey Beach Resort, Busselton, Western Australia, 02/05/07
28. “Climate Change and Australia’s Response”, 61st Environmental Health Conference, Esplanade Hotel, Fremantle, Western Australia, 11/05/07
29. “The Role of Hurricanes in Greenhouse Warming: Is the Genie Out of the Bottle?”, Hydrology Session, AGU Joint Assembly, Acapulco, Mexico, 22/05/07
30. “Physical Limnology, the Master and the Servant”, Ocean Science Session, AGU Joint

Assembly, Acapulco, Mexico, 24/05/07

31. “Real Time Self Learning River Basin Management Systems”, keynote speaker, 2nd Int Conference on Managing Rivers in the 21st Century (Rivers 07) Conference, Kuching, Sarawak, Malaysia, 06/06/07
32. “The constancy of change, water in a changing climate”, Renaissance Talk, Osher Life Long Institute, Boise State University, Boise Art Museum, Boise, Idaho, 23/10/07

## **2006**

33. “Water, the Conveyer of Life”, The 2nd Int Conf on Water Resources and Arid Env, Riyadh, Saudi Arabia, 26/11/06
34. “Cleanliness is Next to Godliness”, keynote speaker, XXII IAHN Congress, Centro de Convenciones, Hotel Inter-continental Ciudad Guayana, Puerto Ordaz, Venezuela, 09/10/06
35. “The Constancy of Change: Disengaging from Reality, Challenges and Opportunities within the Water Sector”, Stockholm Water Prize Laureates Symposium, Stockholm, Sweden, 24/08/06
36. “Sequestering Carbon in Lakes”, 15th APD & IAHR Symposium, Chennai, India, 07/08/06
37. “Water in a Changing Climate” Hydrological Sciences for Managing Water Resources in the Asian Developing World, Guangzhou, China, 10/06/06

## **2005**

38. “The constancy of change: Disengaging from Reality”, keynote speaker, the future of food, Adelaide Food Summit. Hyatt Regency Hotel, Adelaide, Australia, 25/10/05
39. “Practitioners guide to lake management”, plenary presentation, 9th Conference of the International Society for Salt Lake Research (ISSLR), Hollis Lecture Theatre 2, Curtin University, 27/09/05
40. “A Practitioners Guide to Modern Developments in Limnology”, presentation given, International Conference on Reservoir Operation and River Management, Guangzhou, China, 19/09/05
41. “A Practitioners Guide to Modern Developments in Limnology”, presentation given, XXXI IAHR Congress, Seoul, Korea, 13/09/05
42. “Progress: Making Water Flow Uphill”, International Conference on Indigenous Knowledge and Sustainability, Perth, Western Australia, Australia, 19/04/05
43. “The Science and Engineering of Water: The Challenges of the Next 50 Years”, presentation given, HELECO, Athens, Greece, 04/02/05

## **2004**

44. “Water in a changing climate”, presentation given, 4th ISEH, 14th IAHR-APD Conference, Sheraton Hotel, Hong Kong, 16/12/04
45. “Estuary Systems: Dynamics and Protection, Modeling phytoplankton and nutrient fluxes in the Northern Adriatic Sea”, International Sustainability Days Conference, Stanford University, San Francisco, 16/10/04.
46. “The Science of Water”, presentation given, Cambridge University Government Policy Programme, Royal Society, Sidney Sussex College, 08/10/04
47. “Engineers: Providers of Health, Security and Wealth or Merchants of Death?” Engineers Week, Engineers Australia, Sheraton Hotel, Perth, Western Australia, 30/08/04
48. “Influence of stratification, rotation, wind forcing and basin shape on the hydrodynamics

of lakes”, Henderson Oration. ANA Hotel, Surfers Paradise, Queensland, 14/08/04

49. “A new turbulence closure scheme for modeling stratified, rotating, wind and tidal forced flows”, 6th International Conference on Hydroinformatics (HIC2004), Suntec City Convention Centre, Singapore, 22/06/04
50. “Managing lakes for optimum water quality and maximum water quality security”, 6th International Conference on Hydro-science & Engineering (ICHE), Brisbane, 3/05/04

### **2003**

51. “Sanitizing the Corps: The Job of an Environmental Engineer?”, named lecture, RH Clarke Lecture: UWA, 2003
52. “Consequences of a philosophy of growth, structure & cleanliness”, keynote address, 2nd International Symposium on Integrated Water Resource Management, Stellenbosch, South Africa, 2003.
53. “Water in a Changing Climate, Water” International Histories, cultures, ecologies Symposium, Perth, Western Australia, Australia, 2003
54. “Tools for the management of water quality in lakes and reservoirs”, plenary presentation, 2nd International Conference on Ecological Protection of the Planet Earth, Bio-Environment and Bio-Culture. Sofia, Bulgaria, 2003
55. “Time and Space scales of interactions between the ecology and the hydraulic environment in natural systems”, XXXIAHR 2003 Water Engineering and Research in a Learning Society Conference. Thessaloniki, Greece, 2003
56. “Water in a Changing Climate”, REIWA Rural Chapter Breakfast, J Kirby Lecture, Perth, Western Australia, Australia, 28 November 2003
57. “Life in a Changing Climate”, keynote address, 2003 United Nations Youth Conference: Water Crisis or Leadership Crisis. UWA, 2003.

### **2002**

58. “Energy flux paths in a stratified lake”, invited lecture, Walter Bean Lecture, University of Waterloo, Canada, 2002
59. “Environmental Management in Reservoir/Lake”, keynote address, International Workshop on Sustainable Env Mgt of Catchment Ecosystem in Asia Pacific Region. Japan, Tokyo, 2002

### **2001**

60. “The influence of transport and mixing on the ecology of stratified lakes”, plenary presentation, NATO Advanced Research Workshop, Sun Valley, Boise, Idaho, USA, 06/07/01
61. “Characterizing the dynamical regimes of a lake”, plenary presentation, 6th International Workshop on Physical Processes, Girona, Spain, 28/06/01
62. “Characterizing the dynamical regimes of a lake”, keynote address, 3rd Int Symposium on Enviro Hydraulics, Arizona State University, Phoenix, USA, 2001

### **2000**

63. “New approaches to modeling internal waves” Keynote talk, Workshop on Internal waves in stratified lakes, University of Stuttgart, 25,11,2000
64. “Leaving kindergarten and heading into the 21st century”, plenary presentation, The Shoreline 2000 Forum, "Is the Future along the coastline?", Nice, France, 26/05/00
65. “Buoyancy Effects in Stratified lakes”, plenary presentation, 5th International

Symposium on Stratified Flows, Vancouver, Canada, 14/07/00

66. “The influence of mixing and transport on the ecology in a stratified lake” Plenary Talk, XIX Latin American Congress of Hydraulics, Cordoba, Argentina 23/10/2000

**1999**

67. “Dispersing the Anthropogenic Impact on the Coastal Margin”, keynote lecture, Coast & Ports 99, Sheraton Perth Hotel, Perth, Western Australia, 15/04/99
68. Freeman lecture; “Transport and Mixing in a Large Lake” MIT 5/04/1999

**1998**

69. “Dynamics of Large Stratified Lakes.”, plenary presentation, 15th International Diatom Symposium 1998, Curtin University of Technology, Perth, Australia, 1998 (Can’t find exact date in calendar)
70. “Dispersion and Mixing in the coastal regime”, named lecture, William Mong Distinguished Lecture, Faculty of Engineering, University of Hong Kong, Hong Kong, 14/12/98
71. “Turbulence transport and mixing in stratified lakes”, plenary presentation, 7th International Symposium on River Sedimentation and the 2nd International Symposium on Environmental Hydraulics, HK Department of Civil Engineering, The University of Hong Kong, Hong Kong, 19/12/98

**1997**

72. “Challenges in modelling water quality in lakes, estuaries and coastal Seas”, plenary presentation, AWWA 17th Federal Convention, Water in the Balance, Melbourne, Victoria Australia, 1997
73. “Environmental Engineering: Designing for sustainable development”, plenary presentation, Engineering Opportunities on the Indian Ocean Rim, Perth, WA, Australia, 1997
74. “Challenges in modelling water quality in lakes, estuaries and coastal seas”, plenary presentation, 27th IAHR Congress, San Fransisco, USA, 1997

**1996**

75. “Flux paths in a stratified lake or reservoir”, named lecture, The Milton Bender Lecture, Asian Institute of Technology, Thailand, 1996
76. “The hydrodynamics of shallow water bodies”, plenary presentation, Wetlands for the Future - INTECOL's V Wetlands Conference, University of WA, Australia, 1996

**1995**

77. “Internal wave weather in a stratified lake”, plenary presentation, XXI International Association for the Physical Sciences of the Oceans, Hawaii, USA, 1995
78. “Flux paths in a stratified lake: A review”, plenary presentation, IUTAM Symposium on Physical Limnology, Broome, Australia, 1995
79. “Instrumentation in limnology”, plenary presentation, XXVI SIL International Congress of Limnology, Sao Paulo, Brazil, 1995

**1994**

80. “Measurement of turbulent properties in a natural system”, plenary presentation, ASCE

Hydraulics Symposium, Buffalo, USA, 1994

81. "Mixing in a stratified shear flow", plenary presentation, International Workshop on Mixing in a Stratified Fluid, Arizona State University, Arizona, USA, 1994
82. "Lake number as a tool for water management", plenary presentation, International Symposium on Ecology and Engineering Teman Negara, Malaysia, 1994
83. "Mixing and transport in a stratified lake", plenary presentation, 4th International Symposium on Stratified Flows, Grenoble, France, 1994

### **1993**

84. "Update on Physical Limnology", plenary presentation, Australian Society of Limnology, Jolly Award Presentation, Marcoola, Australia, 1993
85. "The Influence of Fluid Motions on Biogeochemical Reactions in Natural Environments" plenary presentation, 12th Australian Symposium on Analytical Chemistry 3rd Environmental Chemistry Conference, Western Australia, 1993
86. "Physical processes in the coastal regime and the implications for numerical models", plenary presentation, International Colloquium and Exposition on Computer Applications in Coastal and Offshore Engineering (ICE-CACO '93), Kuala Lumpur, Malaysia, 1993

### **1992**

87. "Mixing processes in large lakes", plenary presentation, XXV SIL International Congress of Limnology, Barcelona, Spain, 1992
88. "Internal wave climatology and mixing in lakes", plenary presentation, American Society of Limnology & Oceanography Symposium, Santa Fe, New Mexico, USA, 1992

### **1991**

89. "Internal wave climatology and mixing in a stratified lake", plenary presentation, XX General Assembly IUGG Vienna, IAPSO, Italy, 1991
90. "Instrumentation advances in physical limnology", International Symposium on Environmental Hydraulics, University of Hong Kong Hong Kong, 1991

### **1990**

91. "An experimental study of the initial response of a stratified lake to a surface shear stress", plenary presentation, International Conference on Physical Modelling of Transport and Dispersion in conjunction with the Garbis H Keulegan Centennial symposium, Boston, Massachusetts, 1990

### **1989**

92. "The microstructure of the water column and small scale water movements in lakes", plenary presentation, International Workshop on Spatial and Temporal Scales of Water Movement in Large Water Bodies and their Importance for the Plankton, 1989
93. "Physical limnology", plenary presentation, XXIV SIL International Congress, Munich, West Germany, 1989

### **1987**

94. "Surface buoyancy jets", plenary presentation, Third International Symposium on Stratified Flows, Pasadena, USA, 1987
95. "Signal processing applications and requirements in oceanography", plenary rresentation,

International Symposium on Signal Processing and its Applications, University of Queensland, Brisbane, Australia, 1987

96. "Dynamic reservoir simulation", theme lecture, XXIII SIL Congress, Hamilton, New Zealand, 1987
97. "Horizontal and vertical mixing in lakes, reservoirs and coastal regions", named lecture, Evans Memorial Lecture, University of Queensland, Brisbane, Australia, 1985
98. "The dynamics of a tidal shear flow", plenary presentation, IUTAM Symposium on Mixing in Stratified Fluids, Margaret River, Western Australia, 1985

### **1983**

99. "Tidal jet frontogenesis", plenary presentation, 8th Australasian Fluid Mechanics Conference, Newcastle, Australia, 1983

### **1982**

100. "Scour behind circular cylinders in deep water", plenary presentation, International Coastal Engineering Conference, Cape Town, South Africa, 1982

### **1980**

101. "Billowing and its influence on mixed layer deepening", plenary presentation, Conference on surface-water impoundments, Minneapolis, USA, 1980.
102. "A review of selective withdrawal", plenary presentation, Second International Symposium on Stratified Flows, Trondheim, Norway, 1980.

## ***Professional Service: Seminars, Talks and Presentations (444)***

(1980 to Present)

### **2015**

- 1) "Global Warming: Hot Air Or A Real Threat With No Solution On The Internet?" Presentation to the Australian Institution of Refrigeration, Air Conditioning and Heating, The Old Brewery, Perth, WA, 22/10/2015.

### **2014**

- 2) "Engineering for sustainability" Institution of Engineers, Perth, 31/04/2014

### **2013**

- 3) "Dynamics of Lake Argyle" Field report, Lake Argyle Tourist Village, 2/12/2013
- 4) "The hydrodynamics of large lakes and the implications for carbon sequestration" Seminar, Centre for Mathematical Sciences, Cambridge, 25/10/2013
- 5) "The treasures of the SouthWest of Western Australia", GCSAWA State Conference 5/08/2013.
- 6) "How to save the Swan River, plant trees", Probus Club, Dalkeith 8/07/2013.
- 7) "Implications of the Way We Live", Rotary, Attadale, 10/06/2013
- 8) "Implications of the Way We Live", SymbiotiA, presentation given, The Centre of Excellence in Biological Arts at the School of Anatomy, Physiology and Human Biology, Perth, Australia, 17/05/2013
- 9) "Real-time management of lakes to optimize flood control, bulk water, carbon sequestration



and hydropower”, presentation given at School of Civil Engineering, University of Western Australia, Perth, Australia, 24/05/2013

- 10) “CWR telemetered bores and information system project”, presentation given, at the Department of Water, Perth, Australia, 10/04/2013

## **2012**

- 11) “Living Sustainably: Opportunities For Western Australia”, presentation given Horticultural Media Association, Perth, Australia, 10/01/2012
- 12) “Swan River Estuary and RMSO”, school visit, Santa Maria College, Perth, Australia, 29/02/12
- 13) “Response to Global Warming: Denial, Resistance or Adaption”, presentation given, WildbadKreuth, Munich, Germany, 28/03/12
- 14) “Life in a Changing Climate”, Guest Lecture Given, Curtin University of Technology, Perth, Australia, 04/04/2012
- 15) “Life in a Changing Climate”, guest speaker, INITIATE the Tour, AIESEC, Perth Australia, 16/04/12
- 16) “Building global resilience: Recognizing there is a next generation”, presentation given, Probus Club of Subiaco, Perth, Australia, 11/06/2012
- 17) “Adaptive Real-time, Self-Learning River Basin Living: Challenges”, guest speaker, Center for Ocean-Atmospheric Prediction Studies (COPAS), Florida, USA, 06/12/12
- 18) : “Adaptive Real-time, Self-Learning River Basin Living: Challenges”, guest speaker, MPO Seminar, University of Miami, Miami, USA, 11/12/12

## **2011**

- 19) “Adaptive Real-time Management for the Swan-Canning Online: A Vision”, Stanford University, Palo Alto, California 03/01/2011
- 20) “Responses to Change: Denial, Resistance or Adaptation”, “Bruderlich Kreis”, Germany, 04/06/11
- 21) “Adaptive Management of Climate Change Eventualities, Bremen River Weser Right Bank Levee Association”, Germany, 06/04/11
- 22) “The Water, Energy and Food Security Nexus – Water Resources in the Green Economy”, German NGO Network on Water and Sanitation, 08/06/11
- 23) “Response to Climate Change: Deny, Prevent, Adapt, Centre for Water Research” seminar given, UWA, Perth, 13/04/11
- 24) “Planning for the Future: Implications of the Way We Live”, seminar given, Young Engineers Australia, Perth, 16/05/11
- 25) “Real-time Adaptive Management of the Venice Lagoon”, seminar given, The Venice conference, Venice, 12/09/11
- 26) “Living Sustainably: Opportunities For Western Australia”, lecture given, Curtin University of Science and Technology, Perth, 12/10/11
- 27) “ Response to Change: Denial, Resistance, Adaptation or More Engineering?”, presentation given, Civil Engineering Department Environmental & Water Resources Engineering, University of Texas, Austin, 01/11/11

## **2010**

- 28) “Engineering in 2030: How the Engineering Profession is Changing”, guest speaker, Challenges & Innovations Lecture, University of Notre Dame, Illinois, USA, 23/09/10
- 29) “ Challenges for Australian Sustainability”, lecture given, Catholic Education Office’s

Science Teachers Professional Development Day, Perth, 25/02/10

- 30) “ A Vision for the South West”, lecture given, UWA Institute of Agriculture’s Food and Agriculture Lecture Series, UWA, 24/02/10
- 31) “Real-time Management Systems for the management of Rivers”, presentation give, City of Bunbury, Bunbury, 23/02/10
- 32) “ CWR’s Real-time Management systems: Applications in Victoria, Coliban Water Authority”, lecture given, Bendigo, 27/01/10

## **2009**

- 33) “ Climate Change: The Realities, the Challenges, the Opportunities”, seminar given, Centre for Water Research, Perth, 02/08/09
- 34) “ Resources, Climate, Economy, Wealth, Environment, Masters of Business Administration Unit: The Economics of Climate Change”, Guest Lecture, University of Western Australia, 21/09/09
- 35) “Nature’s Garden; The South West of Western Australia, Masters of Business Administration Unit: The Economics of Climate Change”, Guest Lecture, University of Western Australia, 21/09/09
- 36) “Adaptive, Real Time, Self Learning Lagoon Living”, seminar given, This SPA Environmental and Territory Engineering, Venice, Italy, 04/10/09
- 37) “ Adaptive, Real Time, Self Learning River Basin Living”, seminar given, Istituto Di Idraulica, Padova University, Italy, 05/10/09
- 38) “ Adaptive, Real Time, Self Learning Living in Lake Como”, seminar given, Como Polytech Environmental Engineering Department, Lake Como, Italy, 08/10/09
- 39) “ Adaptive, Real Time, Self Learning Living in Lake Como”, seminar given, IRSA (National Water Research Institute) Central Department, Rome, Italy, 09/10/09
103. “Building a Better Community: Connecting People and Environment in the Swan Canning River Basin”, seminar given, Centre for Water Research, Perth, 28/10/09
104. “Water Resource Challenges for Western Australia; More Rain in the Wrong Place”, seminar given, Australian Academy of Technological Sciences and Engineering Eminent Speaker Series, Curtin University, Perth, Western Australia 05/08/09

## **2008**

105. “Physical Limnology”, seminar given Scrips Institution of Oceanography, University of California San Diego, California, 30/01/08
106. “Water in a changing climate, Mechanical and Aerospace Engineering”, seminar given, IRA A Fulton School of Engineering, Arizona State University, Arizona, 29/01/08
107. “ Real-time adaptive river basin management”, seminar given, Civil and Environmental Engineering Dept, University of California Berkeley, California, USA 28/01/08
108. “ Monitoring/modeling capabilities of the CWR”, seminar given, Nueva Aldea Industrial Complex, Cellulose Plant, Concepcion, Chile, 21/01/08
109. “ Real-time adaptive river basin management”, seminar given, Dipartimento di elettronica, Politecnico Di Milano, Milan, Italy, 07/04/08
110. “Real-time adaptive river basin management”, seminar given, Division of Environmental, Water and Agricultural Engineering, Faculty of Civil and Environmental Engineering, Technion University, Haifa, Israel, 09/04/08
111. “ Water in a changing climate, Institute of Earth Sciences”, seminar given, The Hebrew University of Jerusalem, Jerusalem, Israel, 13/04/08

112. “ Agriculture in a Changing Climate, Irrigation Australia Conference”, seminar given Melbourne, Australia, 05/22/08
113. “Life in a Changing Climate”, seminar given, Wouk Lecture Beckman Auditorium Caltech, Pasadena, CA, US, 10/21/08

### **2007**

- 40) “ Real-time, self learning, adaptive management of lakes and reservoirs” seminar given, USGS Texas Water Science Center, Dallas USA, 2/11/07
- 41) “ Real-time, self learning, adaptive management of lakes and reservoirs”, seminar given, Caterpillar Seminar, University of Iowa, Iowa USA, 1/11/07
- 42) “Life in a changing climate”, seminar given, Geography Dept Seminar, University of Illinois, Champaign Urbana, Illinois, 30/10/07
- 43) “ Water in a changing climate”, seminar given, Civil Engineering Seminar, University of Illinois, Champaign Urbana, Illinois, 29/10/07
- 44) “Real-time adaptive river basin management”, seminar given, International Environmental Coordination Office, IAHR Student Chapter Seminar, Idaho Water Centre, Boise, Idaho, 24/10/07
- 45) “Life in a changing climate”, lecture given, Westfield Design Lecture Series, Westfield Office, Los Angeles, California, 19/10/07
- 46) “ Reflections on climate change and the human response”, seminar given, Sydney Catchment Authority, Penrith, Sydney, 17/9/07
- 47) “ Setting up and investigation and modelling program for the adaptive management of a eutrophic reservoir in a temperate climate”, seminar given, EDELCA, Caracas, Venezuela, 25/4/07
- 48) “ Water in a Changing Climate”, seminar given, Instituto del Agua y del Ambiente, Ezeiza, Argentina, 25/4/07
- 49) “ Real time monitoring”, seminar given, International Environmental Office, San Martin, Buenos Aires, Argentina, 24/4/07
- 50) “Setting up a investigation and modeling program for the adaptive management of a eutrophic reservoir in a temperate climate”, seminar given, Subsecretaria de Recursos Hidricos, Buenos Aires, Argentina, 23/4/07
- 51) “ Water in a changing climate”, seminar given, Gesar, Rio de Janeiro, Brazil, 19/4/07
- 52) “ Opportunistics Field Methodologies”, seminar given, SABESP, Sao Paulo, Brazil, 18/4/07
- 53) “ Water in a changing climate”, seminar given, Hydraulic and Sanitary Dept, Escola Politecnica Da Universidade De Sao Paulo, Sao Paulo, Brazil 17/4/07
- 54) “ Water in a changing climate”, seminar given, CETESB, Sao Paulo, Brazil, 16/4/07
- 55) “ Digest of Physical Limnology”, seminar given, CWR Seminar, Blakers Lt, UWA, 28/2/07
- 56) “Introduction to the nature of water and sustainability”, short course, Institute of Mechanics, 264 Doi-Can, Ba-Dinh, Hanoi, Vietnam, 29/01/07
- 57) “Physical Limnology”, short course, Institute of Mechanics, 264 Doi-Can, Ba-Dinh, Hanoi, Vietnam, 29/01/07
- 58) “Using ELCOM for modeling”, short course, Institute of Mechanics, 264 Doi-Can, Ba-Dinh, Hanoi, Vietnam, 30 /01/07
- 59) “Self-Learning Management Tools for Aquatic Systems”, lecture given, Learning Oasis Room, Waterhub: 82 Toh Guan East Singapore, 24/1/07

### **2006**

- 60) "Dynamics of Lake Como", lecture given, Villa Omo, Como, Italy, 7/10/06
- 61) "CWR Status Report", lecture given, CWR/Japan Symposium, Tottori, Japan, 06/07/06
- 62) "A Proposal for an Aquatic Self learning System", lecture given, University Club, Perth, Western Australia, presented to EWT Singapore, 23/06/06
- 63) "The Water Crisis: Fact or Fiction", lecture given, Hew Roberts Lecture Theatre, UWA Extension, The University of Western Australia, 24/05/06
- 64) "Basin Scale Phenomena in Stratified Lakes", lecture given, EERC Seminar Room, Block N1, Room #B3b-18, School of Civil & Environmental Engineering, NTU, 10/05/06
- 65) "Real Time Management and Response Systems for Coastal Defence", lecture given, Conference Room, Center for Water Resources & Environment, Zhongshan (Sun Yat-sen) University, 135 Xingang Road West, Guangzhou, PR China, 07/05/06
- 66) "The Constancy of Change: Disengaging from Reality", lecture given, Vice Chancellory, University of Cordoba, 02/05/06
- 67) "A Proposal for a Self Learning System for Lake Beaver", lecture given, Beaver Water District, Fayetteville, Arkansas, US, 24/04/06
- 68) "A Proposal for a Self Learning System for Marina Lake", lecture given, PUB Board Room, 15th Floor, 111 Somerset Road, #15-01 Singapore, 21/04/06
- 69) "Basin scale phenomena in stratified lakes", seminar given, CWR Seminar, Blakers Lt, 12/4/06
- 70) "Advances in Lake Management", lecture given, CWR Seminar, University of Western Australia, 22/03/06
- 71) "Advances in Lake Management", lecture given, Auditorium, Engineers Australia, Western Australia, 13/03.06
- 72) "A practitioners guide to lake management", lecture given, Melb Water Office, 100 Wellington Parade, East Melbourne, 06/03/06
- 73) "Overview of self-learning system", lecture given, Presentation to Permanent Secretary, Mr Tan Yong Soon, Ministry of Environment and Water Resources, Singapore, 27/02/06
- 74) "The Science of Water", lecture given, Partners of Clayton Utz, 27th Floor, QV.1, 250 St Georges Terrace, Perth WA 6000 Australia, 23/02/06
- 75) "Self Learning Systems for Aquatic Domains", lecture given, U.S. Bureau of Reclamation Workshop, Snake River Area Office West, 230 Collins Road, Boise, Idaho, 27/01/06
- 76) "Self Learning Systems for Aquatic Domains" lecture given, USGS Workshop on Self Learning Systems, GENESIS Technology Incubator, Research Center Blvd., Fayetteville, AR 72701, 23/01/06
- 77) "Coastal Management, Alarm and Response System", lecture given, Envisioning the Future of the Gulf Coast, New Orleans, Louisiana, US, 25/04/06
- 78) "Coastal Defence Systmes", lecture given, ENAP, Naval Academy, Cartagena, Columbia, 21/01/06
- 79) "Numerical Modelling in Reservoirs", lecture given, EPM, Medellin, Columbia, 18/01.06
- 80)** "Managing Large lakes", lecture given, CIEP, Coyhaique, Chile, 11/01/06

## **2005**

- 81) "Water Quality Study of Kranji Reservoir" , lecture given, PUB Workshop, Singapore, 15/11/05
- 82) "Hydrodynamics, macro-scale to micro-scale", lecture given, Workshop on Limnological Modelling, USGS Idaho Water Science Centre, 11/11/05

- 83) "CWR Status Report 2005", lecture given, Centro Volta, Villa Olmo, Como, Italy, 27/10/05
- 84) "Water policy issues in climate uncertainty", lecture given, ATSE Seminar on Water Policy in WA, City West Function Centre, Plaistowe Mews, 14/10/05
- 85) "Water policy issues in climate uncertainty", lecture given, Stirling Division Council Meeting, Poolside Room, The Indian Ocean Hotel, 27 Hastings Street, Scarborough, 05/10/05
- 86) "Water in a Changing Climate", lecture given, CEED Seminar, The University Club, Western Australia, 28/09/05
- 87) "Sustainability", lecture given, Built Environment Public Lecture, Planning and Building Green, UWA University Club Theatre Auditorium, 31/08/05
- 88) "Exchange in Winam Gulf", lecture given, ICIPE, Nairobi, Kenya, 07/08/05
- 89) "Sustainability of WA", lecture given, MOTOR TRADE ASSOCIATION OF WA (INC) PROGRAM, Hillary Boat Harbour, Sorrento Quay, 21/05/05
- 90) "Water in a changing climate", lecture given, College of Information Technology (COIT), Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 91) "Real Time Management of Natural Aquatic Systems", lecture given, College of Information Technology (COIT), Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 92) "Water in a changing climate", lecture given, College of Information Technology (COIT), Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 93) "Influence of stratification, rotation, wind forcing and basin shape" lecture given, Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 94) "Time and space scales of interactions between the ecology and the hydraulic environment in natural systems", lecture given, College of Information Technology (COIT), Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 95) "River basin management installation: Tiete River, Sao Paolo Brazil", lecture given, College of Information Technology (COIT), Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 96) "Physical drivers: DYRIM, DYRESM and ELCOM", lecture given, College of Information Technology (COIT), Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 97) "The new ecological model CAEDYM", lecture given, College of Information Technology (COIT), Universiti Tenaga Nasional, KM 7 Jalan Kajang0-Puchong, 43009 Kajang, Selangor Darul; Ehsan, 28/06/05
- 98) "Water in a changing climate", lecture given, Minerals and Geoscience Department, Malaysia, 27/06/05
- 99) "Dynamics of Ceour D'Alene lake", lecture given, USGS Field Office, Boise, Idaho, US, 06/06/05
- 100) "Sustainability of WA's Water supply", lecture given, Citizens' Jury on community engagement, Innovation in Community Engagement Conference, Function Centre, Perth Zoo, Labouchere Road, South Perth, 28/05/06
- 101) "Water & Changing Values", lecture given, Perth Rotary Conference, Perth Convention Centre, 12/3/05

- 102) “Water and changing values”, lecture given, Committee for Economic Development of Australia (CEDA), Perth, Hyatt Regency, 10/3/05
- 103) “Lake Burragorang Project”, seminar given. Sydney Catchment Authority, Penrith, NSW, 25/2/05
- 104) “Applying science to coastal management”, Marconi Conference Centre, San Francisco, 2005.
- 105) “3D Real time water quality model: ELCOM CAEDYM in the South China Seas”, Hong Kong Science Museum, 31/5/05
- 106) “IEM: Water quality Modelling of aquatic systems”,. Universiti Tenaga Nasional, Putrajaya, Malaysia, 28-30/06/05
- 107) “A Practitioners view of modern developments in limnology”, CWR-European Symposium. Villa Olma, Lake Como, Italy, 27/10/05
- 108) “Water in a Changing Climate”, seminar given, Sydney Catchment Authority, Penrith, NSW, 30/5/05
- 109) “Time and space scales of interactions between the ecology and the hydraulic environment in natural systems”,. Hong Kong Polytechnic, Hong Kong, 25/5/05
- 110) “ Real Time Management of Natural Aquatic Systems”, seminar given,. Blakers Lt, UWA, 23/3/05
- 111) “ Real Time Management of Natural Aquatic Systems”.seminar given, Environmental Protection Department Seminar Room, Hong Kong, 25/1/05.
- 112) “Real time Management of Natural Aquatic Systems”,.Lake Biwa Research Institute, Otsu, Japan, 28/1/05
- 113) “Real time management of natural aquatic systems”,. seminar given, CESI, Milan, Italy, 1/2/05
- 114) “Water in a changing climate”, seminar given, Minerals and Geoscience Department of Malaysia, 27/6/05. Kuala Lumpur, Malaysia, 2005.
- 115) “Lake Victoria Field Study results”, seminar given,. Kenyan Agricultural Research Institute (KARI), Kisumu, 16/8/05
- 116) “Limnological Modelling”, workshop,. USGS Idaho Water Science Centre, Boise, Idaho, 1-3/11/05

## **2004**

- 117) “Critical Review of Predictions in Ungauged Basins”, co-author for keynote address, (PUB),. Australia-Japan Workshop on PUB, St Catherine’s College, UWA, Perth, 4/2/04
- 118) “Time and Space scales of interactions between the ecology and the hydraulic environment in natural systems”,. Tel Aviv University, Israel, 03/03/04.
- 119) “Are we moving towards sustainability?”, WA Studies Forum,. Edith Cowan University, Joondalup Campus, .SCA Project Completion Update, (Strategic Liason Group Meeting). Sydney Catchment Authority, Sydney, 29/4/04
- 120) “Using the ISF to guide management of large coastal regions: Adriatic Sea, Mini Symposium”,. National Institute for Land and Infrastructure Management, Japan, 02/12/04.
- 121) “CPD Short Course, Water quality modelling of lakes and estuaries”, 2004. University of Hong Kong, Hong Kong, 12-14/12/04
- 122) “Physical and Ecological Processes in the Gulf of Aqaba”,. Department of Mechanical Engineering, Tel Aviv University, Israel, 19/2/04
- 123) “Time and Space scales of interactions between the ecology and the hydraulic environment

- in natural systems”,. Weizmann Institute of Science, Tel Aviv, Israel, 29/2/04
- 124) “Ethical obligation of the Engineer”. Faculty of Engineering, University of Tel Aviv, Israel, 01/03/04
- 125) “Influence of stratification, rotation, wind forcing and basin shape on the hydrodynamics of lakes”,. Terman Engineering Center, Stanford University, 19/4/04
- 126) “Managing lakes for optimum water quality and maximum water quality security”,. National University of Singapore, 21/6/04
- 127) “Time and space scales of interactions between the ecology and the hydraulic environment in natural systems”, Nanyang Technical University, Singapore, 23/6/04
- 128) “Are we moving towards sustainability?”. University of Queensland, Brisbane, 02/06/04
- 129) “Are we moving towards sustainability?”. School of Engineering, Griffith University, Surfers Paradise, Queensland, 15/7/04
- 130) “Managing lakes for optimum water quality and maximum water quality security”, IEM,. Institute of Engineering Malaysia, Kuala Lumpur, Malaysia, 7/7/04
- 131) “The Science of Water”, seminar given,. Blakers Lt, UWA, 15/9/04
- 132) “ ELCOM: A new versatile three dimensional hydrodynamic model for lakes, reservoirs, estuaries and coastal seas”, seminar given,. Blakers Lt, UWA, 16/6/04
- 133) “Using the Index of Sustainable Functionality to Guide Management of Large Coastal Regions: Adriatic Sea”, seminar given,. Murdoch University, Social Sciences Building, 4/11/04
- 134) “Influence of stratification, rotation, wind forcing and basin shape on the hydrodynamics of lakes”, seminar given, . University of Cambridge, Centre for Mathematical Sciences, 07/10/04
- 135) “Water in a changing climate”, seminar given,. China National Hydrology Assembly, Nanjing China, 07/12/04
- 136) “Influence of stratification, rotation, wind forcing and basin shape on the hydrodynamics of lakes”, seminar given,. Hohai University, College of Traffic and Ocean Engineering, Nanjing China, 08/12/04

### **2003**

- 137) “The Effectiveness of Reservoirs as Water Quality Barriers”, plenary presentation, Ozwater Convention & Exhibition. Burswood, Perth, 2003
- 138) “Short course, Master of Environmental Fluid Mechanics”, lecture given, University of Thrace, Greece, 2003.
- 139) “ The Effectiveness of Reservoirs as Water Quality Barriers”, School of Oil and Gas, UWA, ECM105, 2003.
- 140) “Sanitising the Corpse”, lecture given, Faculty of Eng, University of Thrace, Greece, 2003
- 141) “Energy Flux Path”, lecture given, Faculty of Eng, University of Thrace, Greece, 2003
- 142) “The Effectiveness of Reservoirs as Water Quality Barriers”, Faculty of Agriculture, University of Milan, 2003
- 143) “Kinneret Project”, Ginosar Hotel, Tiberias, Israel, 2003
- 144) “Managing Water Quality in Lakes and Reservoirs”, workshop, University of Idaho, Boise, USA, 2003
- 145) “The Effectiveness of Reservoirs as Water Quality Barriers”, School of Engineering, University of Chile, Santiago, 2003
- 146) “ Time and Space scales of interactions between the ecology and the hydraulic environment

in natural systems”, seminar given, UWA, 2003.

- 147) “Influence of stratification, rotation, wind forcing and basin shape on the hydrodynamics of lakes”, seminar given,. University of Karlsruhe, Germany, 23/10/03
- 148) “Influence of stratification, rotation, wind forcing and basin shape on the hydrodynamics of lakes”, seminar given,. Institute of Ecosystem Study, Pallanza, Italy, 09/12/03
- 149) “Are we moving towards sustainability?”, American College of Thessaloniki, Greece, 11/12/03
- 150) “Managing lakes for maximum water quality security”, Department of Civil Engineering, Aristotle University, Thessaloniki, Greece, 12/12/03
- 151) “CADEYM”, workshop. CWR, Perth, Western Australia, 25/11/03

## **2002**

- 152) “ Characterizing the dynamical regimes of a lake”, short course lectures given, Instituto Mexicano de Tecnologia del Agua, Morelos, Mexico, 2002.
- 153) “Short course”, lectures given, Instituto Mexicano de Tecnologia del Agua, Morelos, Mexico, 2002
- 154) “Modelling the response to artificial destratification of lakes”, short course lectures given, Instituto Mexicano de Tecnologia del Agua, Morelos, Mexico, 2002
- 155) “Characterizing the dynamical regimes of a lake”, short course lectures given, Universidad Nacional de Colombia, Medellin, Colombia, 2002
- 156) “ Energy flux path in a stratified lake”, short course lectures given, Universidad Nacional de Colombia, Medellin, Colombia, 2002
- 157) “Energy flux paths in a stratified lake”, lecture given, Bodensee Seminar, University of Stuttgart, Germany, 2002
- 158) “Energy Flux Path in a Stratified Lake”, lecture given, Instituto Mexicano de Tecnologia del Agua, Morelos, Mexico, 2002
- 159) “Lake Maracaibo: Hydrodynamics and Water Quality”, Caracas, Venezuela, 2002
- 160) “Characterizing the dynamical regimes of a lake environmental dynamics”, seminar given, Centre for Water Research, University of Western Australia, Perth, Western Australia, 2002
- 161) “Lake Maracaibo: Hydrodynamics and Water Quality”, Instituto De Mecanica De Fluidos, Universidad Central De Venezuela, 2002
- 162) “Lake Maracaibo: Hydrodynamics and Water Quality”, Instituto Mexicano de Tecnologia del Agua, Morelos, Mexico, 2002
- 163) “Environmental instrumentation”, Instituto Mexicano de Tecnologia del Agua, Morelos, Mexico, 2002
- 164) “Lake Maracaibo: Hydrodynamics and Water Quality”, Universidad Nacional de Colombia, Medellin, Colombia, 2002
- 165) “Initial modelling results for Lake Erie – ELCOM”, Jorg Imberger & Luis Leon. University of Waterloo, Canada, 2002
- 166) “Energy flux paths in a stratified lake”, seminar given, Freshwater Institute, Winnipeg, Canada, 2002
- 167) “Overview of CWR Physical Limnological Instrumentation and Research” seminar given, Centre for Water Research, University ofWestern Australia, 2002
- 168) “Energy flux path in a stratified lake”, seminar given, Aachen University of Technology, Aachen, Germany, 2002
- 169) “Horizontal transport experiment - Kinneret Model Project” Second Annual Progress



- Meeting (Symposium), Kibbutz Ginnosar, Israel, 2002
- 170) “Progress in the hydrodynamic models - Kinneret Model Project”, Second Annual Progress Meeting (Symposium), Kibbutz Ginnosar, Israel, 2002
- 171) “Energy flux paths in a stratified lake”, seminar given, Inter University Institute of Eilat: Stienitz Inter University Marine Laboratory, 2002
- 172) “Modelling the response to artificial destratification of lakes”, Tel Aviv University, Israel, 2002
- 173) “Energy flux path in a stratified lake”, seminar given, CWR, 17/7/02
- 174) “ Make a Difference”, seminar given, Department of Environmental Engineering, University of Idaho, USA,
- 175) “Dynamics of Brownlee Reservoir”, seminar given, Idaho Power Company meeting, Boise, USA, 2002
- 176) “Brownlee Reservoir Progress Report”, seminar given, Idaho Power Company meeting, Boise, USA, 2002
- 177) “Make a difference: Design the process not the product”, seminar given, Universidad de Antioquia, Medellin, Colombia, 2002

### **2001**

- 178) “Modelling the Hydrodynamics of Stratified Lakes”, short course lectures given, Boise University, Idaho, USA, 2001
- 179) “Vertical & Horizontal Transport Processes in Inland Waters”, short course lectures given, European Eng. Grad School & Water Resources Eng & Management, University of Stuttgart, Germany, 24-28/09/2001
- 180) “UWA Open Day Talk - Make a difference, return some of Nature's gift to you”, lecture given, University of Western Australia, 2001
- 181) “title missing” keynote address given, Inaugural ceremony to the Academia Nacional de Ingeniere. Buenos Aires, Argentina, 2001.
- 182) “The influence of transport and mixing on the ecology of stratified lakes” seminar given, Centre for Water Research, University of Western Australia, 2001
- 183) “Preliminary examination of data from 2001 field experiment in Lake Kinneret”, Kinneret Limnological Laboratory, Tiberias, Israel, 2001
- 184) “Influence of transport and mixing on the ecology of stratified lake”, seminar given. Instituto de Mecanica de Fluidos, Universidad Central de Venezuela, Caracas, Venezuela, 2001.
- 185) “Title missing”, Seminar given, Jewish Centre, Yokine, Western Australia, 2001
- 186) “Characterizing the Dynamics: Regimes of a lake”, seminar given, Dept of Civil Engineering, Tottori University, Japan, 2001
- 187) “Make a difference: Learn to value nature's gifts”, lecture given, Student Chapter, IAHR Symposium: Water, Society and the Engineer, University of Stuttgart, Germany, 2001.
- 188) “Modelling the response to artificial destratification of lakes”, RIZA (Institute for Inland Water Management), Amsterdam, The Netherlands, 2001
- 189) “Modelling the response to artificial destratification of lakes”, Mini-symposium, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, The Netherlands, 2001
- 190) “Characterizing the Dynamical Regimes of a Lake.”, seminar given Department of Biology, University of Waterloo, Ontario, Canada, 2001
- 191) “ Make a difference: Design the process not the product”, seminar given, Department of

Civil & Environmental Engineering, Massachusetts Institute of Technology, Cambridge, USA, 2001

- 192) “Energy Flux Path in a Stratified Lake”, seminar given, Department of Environmental Engineering, University of Idaho, Boise, USA, 2001
- 193) “Make a difference: Design the process not the product”, seminar given, Department of Biology, University of Waterloo, Ontario, Canada, 2001
- 194) “Characterizing the Dynamical Regimes of a Lake”, seminar given, Department of Mathematics, Massachusetts Institute of Technology, Cambridge, USA, 2001
- 195) “Modelling the response to artificial destratification of lakes”, short course lectures given, Universidad Nacional de Colombia, Bogota, Colombia, 2001
- 196) “Temporal and Spatial Variability in River Basins”, Department of Environmental Engineering, University of Idaho, Boise, USA, 2001

## **2000**

- 197) “Lake Pamvotis: The evaluation of restoration measures”, seminar given, University of Catania, Italy, 2000
- 198) “Behaviour of non-linear internal waves and their importance in physical limnology”, lecture given, Department of Engineering and Hydraulics, University of Padova, Italy, 2000
- 199) “Transport, mixing and turbulence in a stratified lake”, lecture given, Department of Hydraulics, Transportation and Roads, University of Rome, Italy, 2000
- 200) “The influence of mixing and transport on the ecology in a stratified lake” Seminar, Univ Constanze, 23/11/2000
- 201) “Turbulent transport in a stratified lake. Department of Hydraulics and Environmental Engineering”, seminar given, Politecnico di Milano, Italy, 2000
- 202) “The emergence of fragmentary narratives in the historical environmental sciences”, chair for Lesley Head, Land Place Culture and Identity: a cross-disciplinary program of inquiry workshop, Institute of Advanced Studies, University of Western Australia, 2000
- 203) “Buoyancy effect in stratified lakes”, seminar given University of Southern California, Dept of Aerospace and Mechanical Engineering, Los Angeles, USA, 2000
- 204) “Buoyancy effect in stratified lakes” seminar given, CSIRO Land & Water Seminar Series, Perth, Western Australia, 2000
- 205) “The influence of transport and mixing on the ecology in a stratified lake” seminar given, Institute for Science and Technology Policy, Murdoch University, Perth, Western Australia, 2000
- 206) “Transport, mixing and ecological processes in large lakes”, seminar given, Centre for Water Research, University of Western Australia, 2000
- 207) “The influence of mixing and transport on the ecology in a stratified lake”, seminar given, Furnas Des Meio Ambiente Natural Biologi, Rio de Janeiro, Brazil, 2000
- 208) “The influence of transport and mixing on the ecology in a stratified lake, seminar given, Universidad Nacional Del Litoral, Santa Fe, Argentina, 2000
- 209) “From the catchment to the oceans: Changing scales of motion”, lecture given, IAHR Student Chapter, Univeristy of Stuttgart, Germany, 2000
- 210) “The influence of mixing and transport on the ecology in a stratified lake”, seminar given, Bodensee, University of Stuttgart, Germany, 2000
- 211) “The influence of mixing and transport on the ecology in a stratified lake, seminar given, National Research Council, Water Research Institute. Brugherio, Milano, Italy, 2000

- 212) “Buoyancy Effects in Stratified Lakes”, presentation given, 2nd International Symposium on Great Lakes of World (GLOW II) Sligo, Ireland, 2000
- 213) “ The influence of mixing and transport on the ecology in a stratified lake”, presentation given, XIX Latin American Congress of Hydraulics, Cordoba, Argentina 23 – 26/10/00
- 214) “The island called earth”, lecture given, Christchurch Grammar School, Perth, Western Australia. Year 8 father/son breakfast, 2000
- 215) “ New approaches to modeling internal waves”, lecture given, Internal Waves in Stratified Lakes Workshop, University of Stuttgart, Germany, 2000
- 216) “Lectures to postgraduate students of Masters in Water Management and Environmental Protection”, short course lectures given. Uni of Catania, 2000
- 217) “Physical Limnology and introduction to fluid transport and mixing”, short course lectures given, University of Rome, 2000
- 218) “ Physical Limnology and introduction to fluid transport and mixing”, short course lectures given, Applied Hydrodynamics (Istituto Di Idraulica "Giovanni Poleni", University Of Padova (Universita Degli Studi Di Padova), 2000
- 219) “Philosophy of Engineering”, lecture given, Padova University, Italy, 2000

### **1999**

- 220) “Transport and mixing in a large lake”, presentation given, Large Lakes observatory, University of Minnesota, Duluth, USA, 1999
- 221) “Transport and mixing in a large lake”, presentation given, St Anthony Falls Laboratory, University of Minnesota, St Paul’s, Minneapolis, USA, 1999
- 222) “Environmental Engineering: Evolution of a new discipline”, seminar given, New Fellows Seminar, Australia Academy of Science, Canberra, ACT, 1999
- 223) “Dispersing the human impact on the coastal margin. Sunken Treasure?”, presentation given, Australian Coasts and oceans Symposium, Australian Academy of Science, Canberra, ACT, 1999.
- 224) “Benthic boundary layer flux path”, seminar given, The Yigal Allon Kinneret Limnological Laboratory, Israel Oceanographic & Limnological Research Ltd, Israel, 1999.
- 225) “Lake Kinneret Field Trip 1999 - Results of the field experiment”, Seminar given, Centre for Water Resource, University of Western Australia, Perth, 1999.
- 226) “Dynamics of Large Stratified Lakes”, seminar given, University of Rome, Italy, 1999.
- 227) “Dynamics of Large Stratified Lakes”, seminar give, Department of Hydraulics, Transportation and Roads, University of Rome, Italy, 1999.
- 228) “From catchment to the oceans: Changing scales of motion”, presentation given, Public Works Research Institute, Ministry of Construction, Tokyo, Japan, 1999.
- 229) “How does the estuary work?”, Western Australian Estuary Research Fund Community Forum, University of Western Australia, Perth, 1999.
- 230) “Modelling of Large Lakes”. Bodensee Presentation, Muenzhof of Langenargen University of Stuttgart, Germany, 1999.
- 231) “Dispersing the anthropogenic impact on the coastal margin”. Department of Environmental Hydraulics, Tokyo Denki University, Saitama, Japan, 1999.
- 232) “Environmental Engineering Lecture Series”, short course lectures given, University of Padova, Italy, 1999.
- 233) “ Transport and Mixing in a Large lakes”., named lecture, Freeman Lecture, Massachusetts Institute of Technology, Massachusetts, USA, 1999.

- 234) “Water Resource Management in Sarawak”, lecture given, Centre for Water Research, University of Western Australia, Perth, WA, 1999.
- 235) “Working Towards a Cleaner Swan River”, lecture given, Centre for Water Research, University of Western Australia, Perth, WA, 1999.
- 236) “Where do we go from here?” presentation given, Salinity Workshop, Clough Engineering, Perth, WA, 1999.
- 237) “CWR Capabilities”, lecture given, Democritus University of Thrace, Xanthi, Greece, 1999.
- 238) “The Engineering Culture”, presentation given, Workshop – The Engineer of the Future, Faculty of Engineering & Mathematical Sciences, University of Western Australia, 1999.
- 239) “From catchment to the oceans: Changing scales of motion” plenary presentation, Asian Institute of Technology, 40th year anniversary. Civil and Environmental Engineering conference, Bangkok, Thailand, 1999.
- 240) “Lake Pamvotis: The evaluation of restoration measures”, presentation given. Final presentation to Scientific Committee and Mayor of Ioannina for Lake Pamvotis, Ioannina, Greece, 1999.

### **1998**

- 241) “Dispersion and Mixing in the Coastal Regime” William Mong Lecture, Hong Kong, 14/12/1988
- 242) “Dynamics of Large Stratified Lakes”, plenary presentation, Kinneret Symposium Kibbutz, Ginnosar, Israel, 1998.
- 243) “Dynamics of Large Stratified Lakes” plenary presentation, Lakes as Indicators for Anthropogenic Process in the Catchment Area Conference, Monte Verita, Ascona, Switzerland, 1998.
- 244) “How does the estuary work?”, lecture given, Social Science Lecture Theatre, University of Western Australia, Perth, WA, 1998.
- 245) “Management of large lakes”, presentation given, Sanitation Engineering Association, Sao Paulo, Brazil, 1998.
- 246) “Management of large lakes”, presentation given, The National Institute of Water and the Environment, Buenos Aires, Argentina, 1998.
- 247) “Management of large lakes”, presentation given, Universidad Nacional Del Sur, Bahia Blanca, Argentina, 1998.
- 248) “Management of large lakes”, presentation given, University of Bariloche, Argentina, 1998.
- 249) “Management of large lakes”, presentation given, Universidad Austral De Chile, Valdivia, Chile, 1998.
- 250) “Management of large lakes”, presentation given, University of Chile, Santiago, Chile, 1998.
- 251) “Management of large lakes”, presentation given, University of Konstanz, Germany, 1998.
- 252) “Modelling of large lakes”, Bodensee Presentation, Muenzhof of Langenargen, University of Stuttgart, Germany, 1998.
- 253) “Mixing and circulation in Barbamarco Lagoon: Mathematical modelling and field study”, presentation given, Museo di Ca Vendramin e mercato ittico di Pila, Padua, Italy, 1998.
- 254) “Management of large lakes”, presentation given, Sydney Water Corporation, Sydney, Australia, 1998.
- 255) “Turbulence in a stratified lake”, ED Seminar, Centre for Water Research, University of

Western Australia, Australia, 1998.

- 256) “Management of Large Lakes”, presentation given, Delft Hydraulics, Delft, The Netherlands, 1998.
- 257) “Role of internal waves in horizontal and vertical mixing and transport”, seminar give, The Yigal Allan Kinneret Limnological Laboratory, Tiberias, Israel, 1998.
- 258) “Management of Large Lakes”, presentation given, Israel Oceanographic Limnological Research Ltd, Haifa, Israel, 1998.
- 259) “Dynamics of Large Lakes”, presentation given, Bodensee Kolloquim, University of Stuttgart, Germany, 1998.
- 260) “Role of internal waves in horizontal and vertical mixing and transport”, seminar given, Centre for Water Research, University of Western Australia, 1998.

### **1997**

- 261) “Preliminary examination of data from June 1997 field campaign in Lake Kinneret”, lecture given, Kinneret Limnological Laboratory, Tiberias, Israel, 1997.
- 262) “ Balga Senior High School - Year 12 Graduation Ceremony” lecture given, The Underwater World, Hillarys boat Harbour, WA, 1997.
- 263) “ Lake Pamvotis: An écological study”, lecture given, Municipality of Ioannina, Greece, 1997.
- 264) “ Environmental Engineering: Designing for sustainable development and the Barbamarco Lagoon Experiments”, lecture given. Regional Government Office, Mestre, Venice, Italy, 1997
- 265) “ Environmental Engineering: Designing for sustainable development”, plenary presentation, Engineering Opportunities on the Indian Ocean Rim, 1997.
- 266) “Advances in Environmental Fluid Mechanics”, Padova University, Padova, Italy, 1997.
- 267) “Centre for Water Research: An overview”, South Australian Water, Adelaide, Australia, 1997.
- 268) “Environmental Engineering: Designing for sustainable development”, Seminar given, Centre for Water Research, University of Western Australia, Australia, 1997.
- 269) “Management of Natural Aquatic Systems: Joint Venture Centre for Water Research and Sinclair Knight Merz”, Istana Hotel, Jakarta, Indonesia, 1997.
- 270) “Environmental Engineering: Designing for sustainable development”, Research Institute for Water Resources Development, Ministry of Public Works, Bandung, Indonesia, 1997.
- 271) “Environmental Engineering: Designing for sustainable development”, Jurusan Teknik Lingkungan (Environmental Engineering Department) Institut Teknologi Bandung, Indonesia, 1997.
- 272) “Environmental Engineering: Designing for sustaible development”, Department of Civil & Environmental Engineering, University of Adelaide, Australia, 1997.
- 273) “CWR Capabilities”. Department of Water Resources Development, Jakarta, Indonesia, 1997.
- 274) “Flow regimes in natural aquatic systems”, 2nd International Symposium on Ecology and Engineering, Esplanade Hotel, Fremantle, WA, Australia, 1997.
- 275) “Challenges in Modelling water quality in lakes, estuaries and coastal seas”, Department of Civil Engineering, Tokyo Institute of Technology, Japan, 1997.
- 276) “Challenges in Modelling Water Quality in Lakes, Estuaries and Coastal Seas”, The Environmental Protection Authority (EPA) staff, Melbourne, 1997.

- 277) "Lake Kinneret", Mekorot Water Company, Tiberias, Israel, 1997.  
278) "Environmental Engineering: Designing for sustainable development", Departemen Pekerjaan Umum, Perusahaan Umum Jasa Tirta, Malang, Indonesia, 1997.

**1996**

- 279) Acceptance Speech, public lecture, Stockholm Water Prize. City Hall Stockholm, Sweden, 1996.  
280) "Hydrodynamics of estuaries and implications for ecological models", lecture given, Press Centre, Berns Congress, Stockholm, Sweden, 1996.  
281) "The role of the Centre for Water Research in the management of aquatic systems", lecture given, AWWA Members at the Institutions of Engineers, Perth WA., Australia, 1996.

**1995**

- 282) "Water quality management of lakes and reservoirs", plenary presentation, Joint AAS-KOSEF Symposium on recent advances on water quality management, University of New South Wales, Sydney, Australia, 1995.  
283) Academic Short Course/Lectures Given: Guest lecturer, (1 week). University of Padova, 1995.  
284) Lawrence Distinguished Visiting Scholar to the Marine Sciences Research Center, State University of New York, Stony Brook, New York, USA (1 week). New York, USA, 1995.  
285) "Plans for a sustainable development of the world: A UN Perspective", College of Engineering at the Arizona State University in Tempe, Arizona, USA, 1996.  
286) "Turbulent fluxes in a stratified lake", College of Engineering at the Arizona State University in Tempe, Arizona, USA, 1996.  
287) "Instrumentation advances in limnology", Stanford University, Stanford, California, USA, 1996.  
288) "Flux paths in lakes and reservoirs", Stanford University, Stanford, California, USA, 1996.  
289) "Flux paths in a stratified lake: A review", seminar given, Centre for Water Research, University of Western Australia, Australia, 1996.  
290) "Advances in instrumentation for limnological research", Institute of Ecology, Padjadjaran University, Bandung, Indonesia, 1996.  
291) "Advances in instrumentation for limnological research" Prince Songkla University, Hat Yai, Thailand, 1996.  
292) "A preliminary assessment of the physical limnology of Lake Kinneret", Israel. ED Seminar, Centre for Water Research, University of Western Australia, Australia, 1996.  
293) "Flux paths in a stratified lake or reservoir", ITT Flygt AB, Soina, Sweden, 1996.  
294) "The hydrodynamics of shallow water bodies", Seminar given, Centre for Water Research, University of Western Australia, Australia, 1996.  
295) "Swan River destratification", Environmental Protection Authority, Perth, WA, Australia, 1996.  
296) "Swan River destratification", Swan/Canning River Task Force Meeting at the Western Australian Cricket Association (WACA) ground Perth, WA, 1996.  
297) "Plans for a sustainable development of the world: A UN Perspective", College of Engineering at the Arizona State University in Tempe, Arizona, USA, 1996.  
298) "A preliminary assessment of the physical limnology of Lake Kinneret, Israel", Environmental Dynamics Seminar, The University of Western Australia, Perth, Western Australia, 1996.

- 299) “Some preliminary thoughts on the physical limnology of Lake Kinneret. Yigal”, Allon Kinneret Limnological Laboratory at the Israel Oceanographic and Limnological Research Ltd, 1996.
- 300) “Water Quality Management in Lakes”, University of Padova, Italy, 1995.
- 301) “Transport processes in stratified lakes”, Korean Society of Water and Wastewater, Seoul, Korea, 1995.
- 302) “Water quality management strategies”, Korea Water Corporation Taejon, Korea, 1995.
- 303) “Anatomy of turbulent mixing in a stratified fluid”, Padova University, Padova, Italy, 1995.
- 304) “Overview of activities of The Centre for Water Research”, Stonybrook University, New York, USA, 1995.
- 305) “Transport processes in Lake Biwa”, Stonybrook University, New York, USA, 1995.
- 306) “Anatomy of turbulent mixing”, Stonybrook University, New York, USA, 1995.
- 307) Water quality management in lakes. Universidade de São Paulo, São Paulo, Brazil, 1995.
- 308) “Transport processes in lakes”, University of Ioannina, Greece, 1995.
- 309) “Flux paths in a stratified lake: A review”, University of Queensland, Brisbane, Australia, 1995.
- 310) “Modern developments in instrumentation for field investigations of coastal seas, estuaries and lakes”, Institute of Engineers, Colombo, Sri Lanka, 1995.

#### **1994**

- 311) “Onassis International Prize: Man and his Environment”, plenary presentation, Alexander S. Onassis Foundation, Athens, Greece, 1995.
- 312) “Small transport processes in Lake Biwa”, presentation given, AMOS, Bureau of Meteorology, Perth, Western Australia, 1994.
- 313) “Mixing and transport in a stratified lake”, presentation given, AMOS, Bureau of Meteorology Melbourne, Australia, 1994.
- 314) “Small transport processes in Lake Biwa” plenary presentation, BITEK Symposium, Nagahama, Japan, 1994.
- 315) “Internal wave weather in Lake Biwa”, presentation given, BITEK workshop, Otsu, Japan, 1994.
- 316) “Of turbulent patches in a stratified lake”, presentation given, BITEK workshop, Otsu, Japan, 1994.
- 317) Academic Short Course/Lectures Given: Guest lecturer, (1 week). University of Padova, 1994.
- 318) “Environmental Engineering Education”, University of Western Australia Perth, Western Australia, 1994.
- 319) “Modelling of Shallow Estuaries”, University of Trento, Trento, Italy, 1994.
- 320) “Mixing and transport in a stratified lake”, IOLR, Kinneret Laboratory, Israel, 1994.
- 321) “Mixing and transport in a stratified lake”, GKSS- Forschungszentrum, Geesthacht, Germany, 1994.
- 322) “Mixing and transport in a stratified lake”, National Research Centre, Magdeburg, Germany, 1994.
- 323) “Environmental Engineering Education”, Institution of Engineers, Perth, Western Australia, 1994.
- 324) Forum on Swan River, presentation given, Swan River Forum, University of Western Australia, Perth, Western Australia, 1994.

- 325) "Boundary mixing due to internal wave breaking", BITEX workshop, Otsu, Japan, 1994.
- 326) "Mixing and transport in a stratified lake", JWEC, Tokyo, Japan, 1994.
- 327) "Mixing and transport in a stratified lake", University of Western Australia Perth, Western Australia, 1994.

### **1993**

- 328) "Leading a research group", lecture given, Effective Leadership in Research Teams Symposium, Perth, Western Australia, 1993.
- 329) "The role of internal waves in Lake Biwa", plenary presentation, BITEX '93 Symposium, Shiga, Japan, 1993.
- 330) "Scales in fluid dynamics", plenary presentation, Workshop on Scale Issues in Hydrological/Environmental Modelling, Robertson, NSW, 1993.
- 331) "Modelling Large Physical Systems", plenary presentation, International Congress on Modelling and Simulation, Perth, Western Australia, 1993.
- 332) "Destratification. Some rational design rules", Australian Water and Wastewater Association, 15th Federal Convention, Gold Coast, Australia, 1993.
- 333) "Mixing in a Stratified Fluid; A review of Recent Results", Hydraulics Group, University of California, Berkeley, USA, 1993.
- 334) "Internal Waves and Turbulence in a Stratified Shear Flow; results from a Field Experiment", University of Southern California, Los Angeles, USA, 1993.
- 335) "Space and Time Scales", University of California, Santa Barbara, USA, 1993.
- 336) "Physical Limnology-Recent Advances", Stanford University, Stanford, USA, 1993.
- 337) "Mixing in a Stratified Fluid", Caltech Division of Engineering Pasadena, USA, 1993.

### **1992**

- 338) "Environmental fluid dynamics of reservoir and receiving estuarine water systems", plenary presentation, International Hydrological Programme, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia, 1992.
- 339) " BITEX ' 92 Preliminary Report", presentation given, Annual meeting of the Multilateral Collaboration Research for the Promotion of Intra-Region Technology and Science Exchange Sponsored by the Japan Agency of Science and Technology, Japan, 1992.
- 340) "Transport Processes in Stratified Water Bodies", short course lectures given, Italy. University of Padova, Italy, 1992.
- 341) "Hydrodynamics of the Swan", Swan River - The future, Workshop Programme. Co-authored with R. Stephens, UWA Masters student. Murdoch University, Perth, Western Australia, 1992.
- 342) "Mixing Processes in a Shallow lagoon", 6th International Conference on the Physics of Estuaries and Coastal Seas, Margaret River, Australia, 1992.
- 343) "On the nature of turbulence in a stratified flow", Department of Mechanical and Aerospace Engineering, Arizona State University, Tempe, USA, 1992.
- 344) "Lake Number as an indicator of water quality", Chung Buk University, Cheong Ju, Korea, 1992.
- 345) "Instrumentation in water quality", Centre for Marine and Coastal Studies, Universiti Sains, Penang, Malaysia, 1992.
- 346) "Research activities and capabilities of CWR", Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia, 1992.



- 347) "Research activities and capabilities of CWR", National University of Singapore, Singapore, 1992.
- 348) "Research activities and capabilities of CWR", Nanyang University of Technology, Singapore, 1992.
- 349) "Fluid Dynamics- Applied to Coastal and lake Water Quality Problems", German Australian Workshop on Water and Waste Water Research Germany, 1992.
- 350) "Water quality control strategies", Institute of Oceanography, National Taiwan University, Taiwan, 1992.

### **1991**

- 351) "Boundary mixing in lakes and oceans", plenary presentation, National Conference on Hydraulic Engineering and International Forum on Ground Water, Nashville, USA, 1991.
- 352) "Instrumentation in Physical Limnology", plenary presentation, Japanese Society of Limnology: Limnology and Instrumentation, 1991.
- 353) "Mixing in enclosed water bodies", lecture given, Padova University, Padova, Italy, 1991.
- 354) "Mixing in the coastal regime", presentation given, West Australian Fisheries Industry Council Seminar, Perth, Western Australia, 1991.
- 355) Mixing in enclosed water bodies [Lakes and estuaries]". Short Course/Lectures Given: Guest lecturer, (2 weeks), Padova University, Italy, 1991.
- 356) "Internal waves and mixing in lakes", Institute for Alpine Research, University of Barcelona, Barcelona, Spain, 1991.
- 357) "Overview of the modelling activities of the Centre for Water Research", Delft Hydraulics, Delft, The Netherlands, 1991.
- 358) "Boundary mixing in lakes and oceans", Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1991.
- 359) "Internal Wave Climatology and mixing in lakes", Tohoku University and Hachinohe Institute of Technology, Japan, 1991.
- 360) "Estimating changes in water quality using Lake Number, a new quantitative indicator of mixing", International Hydrology and Water Resources Symposium, Perth, Western Australia, 1991.

### **1990**

- 361) "Modern developments in Physical Limnology", Asian Institute of Technology, Bangkok, Thailand, 1990.
- 362) "Some thoughts on mixing in the hypolimnion of a lake", Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1990.
- 363) "Physical limnology: Novel applications to the management of aquatic environments", Israel Oceanographic and Limnological Research Ltd., Haifa, Israel, 1990.
- 364) "Modern Limnology", Institute of Biology, Marine Biological Station, Piran, Yugoslavia, 1990.
- 365) "Mixing efficiencies in a stratified lake", Lake Research Laboratory - EAWAG/ETH, Kastanienbaum, Switzerland, 1990.
- 366) "Mixing efficiencies in a stratified lake", Limnological Institute, University of Constance, Konstanz, Germany, 1990.
- 367) "Dispersion characteristics in the Lagoon of Venice", Consorzio Venezia Nuova, Venice, Italy, 1990.
- 368) "Field equipment for physical limnology". Lake Biwa Research Institute, Otsu, Japan,

1990.

369) “Modern developments in physical limnology”, Shimane University, Matsue, Japan, 1990.

### **1989**

370) “ Physical limnology”, Short Course/Lectures Given, Seminar series, ETH Zurich, Switzerland, 1989.

371) “ Building a Research Centre”, lecture given. Australian Water Research Advisory Council, Canberra, Australia, 1989.

372) “ Vertical heat flux in the hypolimnion of a lake”, presentation given, Tenth Australasian Fluid Mechanics Conference, Melbourne, Australia, 1989.

373) “Building a Research Centre” Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1989.

374) “Physical limnology”, Skidaway Institute of Oceanography, University of Georgia, Athens, USA, 1989.

375) “Nature of turbulence in stratified water bodies”, Department of Mechanical Engineering, ETH , Zurich, Switzerland, 1989.

376) “Nature of turbulence in stratified water bodies”, Department of Civil Engineering, University of Karlsruhe, Karlsruhe, Germany, 1989.

377) “Nature of turbulence in a stratified water body”, Department of Civil Engineering, Padua University, Padua, Italy, 1989.

378) “Physical limnology”, Department of Mathematics, University of Western Australia Perth, Western Australia, 1989.

379) “ Physical oceanography of sea straits”, presentation given, NATO/ONR Workshop, Les Arc, France, 1989.

380) Academic Short Course/Lectures Given: Visiting Professor at the Institute of Hydromechanics and Water Resources (4 months). ETH. Zurich, Switzerland, 1989.

### **1988**

381) “Destratification of Reservoirs”, Hydrology and Water Resources Panel, Perth, Western Australia, 1988

### **1987**

382) “ Differential mixed layer deepening in lakes and reservoirs”, presentation given, Japan Society of Civil Engineers, Tokyo, Japan, 1987.

383) “ Time scale interactions in biological systems” presentation given, Cyanophyte Dominance Forum, Taupo, New Zealand, 1987.

384) “Dynamics of a lake and its influence on cyanophyte dominance”, Cyanophyte Dominance Forum, Taupo, New Zealand, 1987.

385) “ Convectively driven flows in the sidearm of a small reservoir”, presentation given, San Francisco Bay Workshop, San Francisco, US, 1987.

386) “The Greenhouse Effect: What it could mean to the Pilbara”, lecture given, Karratha College, Karratha, Western Australia, 1987.

387) “Turbulent motions in a surface buoyant jet”, Department of Physics, University of Western Australia, Perth, Western Australia, 1987.

388) “Reservoir dynamics”, Disaster Prevention Institute, Kyoto University, Kyoto, Japan, 1987.

389) “Convection in a reservoir sidearm”, Department of Civil Engineering, University of Kyoto, Kyoto, Japan, 1987.

- 390) "Signal processing in turbulence research", Department of Civil Engineering, University of Tokyo, Tokyo, Japan, 1987.
- 391) "Scour of a saline underflow", Department of Civil Engineering University of Hokkaido, University of Hokkaido, Japan, 1987.

### **1986**

- 392) "Reservoir dynamics - a review of mixing processes and instrumentation in water quality engineering", plenary presentation, Australian Water and Wastewater Association, Adelaide, South Australia, 1986.
- 393) "Looking forward", lecture given, Australian Marine Sciences Association, Hobart, Australia, 1986.
- 394) "Mixing of momentum, energy and mass in a stratified fluid", presentation given, Marine Science and Technology Forum, Perth, Western Australia, 1986.
- 395) "Instrumentation in water quality engineering" Geophysics Institute, Water Research Unit, University of Alaska, Fairbanks, USA, 1986.
- 396) "Modelling of mixed layer deepening in lakes and reservoirs" California Institute of Technology, Pasadena, USA, 1986.
- 397) "Instrumentation in marine systems", Naval Ocean Systems Centre, San Diego, USA, 1986.
- 398) "Turbulence in a shear flow", Scripps Institution of Oceanography, San Diego, USA, 1986.
- 399) "Oceanography on the North West Shelf", Woodside Offshore Petroleum, Perth, Western Australia, 1986.
- 400) "Reservoir dynamics - a review of mixing processes" Keck Laboratory, California Institute of Technology, Pasadena, USA, 1986.
- 401) "Field instrumentation in water quality engineering", Keck Laboratory, California Institute of Technology, Pasadena, USA, 1986.
- 402) "Mixed layer dynamics", Keck Laboratory, California Institute of Technology, Pasadena, USA, 1986.
- 403) "Instrumentation in marine systems", Southern California Edison Power Company, Los Angeles, USA, 1986.
- 404) "Convection in a reservoir sidearm", Department of Mechanical, Aerospace and Nuclear Engineering, University of Southern California Los Angeles, USA, 1986.
- 405) "Convection in a reservoir sidearm", Department of Applied Mathematics, California Institute of Technology, Pasadena, USA, 1986.
- 406) "Field instrumentation in water quality engineering", Department of Civil Engineering, Stanford University, Stanford, USA, 1986.
- 407) "Dynamics of a surface buoyant jet", Department of Civil Engineering, California Institute of Technology, Pasadena, USA, 1986.
- 408) "Mixing in a tidal shear flow", GALCIT, California Institute of Technology, Pasadena, USA, 1986.
- 409) "Mixed layer dynamics", Joint seminar of Mechanical Engineering and Hydraulic and Coastal Engineering, University of California, Berkeley, USA, 1986.
- 410) "Mixed layer dynamics". The Marine Science Institute, University of California, Santa Barbara, USA, 1986.
- 411) "Turbulence in a tidal shear flow", Institute of Ocean Sciences, Sidney, Victoria, Canada, 1986.
- 412) "Marine instrumentation", Applied Physics Laboratory, University of Washington, Seattle,

USA, 1986.

- 413) “Mixed layer dynamics” Department of Civil Engineering University of Washington, Seattle, USA, 1986.

### **1985**

- 414) “ The diurnal surface layer”, presentation given, Australian Physical Oceanographers' Conference, Hobart, Australia, 1985.
- 415) “ Turbulence in a stratified shear flow at large Richardson numbers”, presentation given, American Physical Society, Tucson, Arizona, USA, 1985.
- 416) “Buoyant gravitational overflows”, AMES University of California, San Diego, USA, 1985.
- 417) “Measuring systems in water quality”, Department of Chemistry, University of Western Australia Perth Western Australia, 1985.

### **1984**

- 418) “Thermal characteristics of lakes and reservoirs”, plenary presentation, CSIR Symposium on Perspectives in Southern Hemisphere Limnology, George, South Africa, 1984.
- 419) “Temperature stratification in lakes and reservoirs”, Department of Physics, University of Western Australia Perth Western Australia, 1984.
- 420) “Tidal jet frontogenesis”, Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1984.
- 421) “The diurnal mixed layer”, Environmental Dynamics Seminar, University of Western Australia, Perth Western Australia, 1984.
- 422) “Tidal jets in Koombana Bay”, Department of Mathematics, University of Western Australia Perth Western Australia, 1984.

### **1983**

- 423) “ Turbulence in a selective withdrawal layer”, lecture given, Applied Mathematics Conference, 1983.
- 424) “Scaling of the environment”, lecture given, Great Barrier Reef Workshop, Townsville, Australia, 1983.
- 425) Academic Short Course/Lectures Given: Invited Visiting Professor (6 weeks). University of Karlsruhe, Germany, 1983.

### **1982**

- 426) “Fine scale structures in the Wellington Reservoir”, Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1982.
- 427) “Dynamics of a reservoir”, Institute of Freshwater Studies, Rhodes University, Grahamstown, South Africa, 1982.
- 428) “Djinnang II”, Institute of Freshwater Studies, Rhodes University, Grahamstown, South Africa, 1982.
- 429) “Field instrumentation for lake research”, National Institute of Water Research, CSIR, Capetown, South Africa, 1982.

### **1981**

- 430) “ A facility to study fine scale structure in lakes, reservoirs and coastal seas”, lecture given, European Geophysical Society Meeting, Sweden, 1981.

- 431) “Mixing in the coastal zone”, presentation given, Shelf wave workshop Cronulla, Australia, 1981.
- 432) “ Modelling components of the hydrological cycle”, presentation given, The Cletus Oakley Address for gifted students, Perth, Western Australia, 1981.
- 433) “ A facility to study fine scale structure in lakes, reservoirs and coastal seas”, presentation given, Annual meeting of Australian Oceanographers. CSIRO, Cronulla, Australia, 1981.
- 434) “ Finescale structure in coastal seas”, presentation given, 5th Australian Conference on Coastal Engineering, Perth, Western Australia, 1981.
- 435) “The assessment of longitudinal mixing in open and closed canals”, Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1981.
- 436) “Dynamics of lakes, reservoirs and cooling ponds”, Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1981.

**1980**

- 437) “ The influence of stream salinity on reservoir water quality”, lecture given, Land and stream salinity seminar and workshop, Perth, Western Australia, 1980.
- 438) Academic Short Course/Lectures Given: Guest Lecturer, Monash University (3 weeks). Monash University, Victoria, Australia, 1974.
- 439) “Djinnang: A research vessel for finescale structure work”, Department of Mechanical Engineering, University of California, Berkeley, USA, 1980.
- 440) Finescale structure in lakes and reservoirs. Environmental Protection Agency, Corvallis, USA, 1980.
- 441) “Predictive abilities of surface water flow and transport models”, Department of Civil Engineering, University of California, Berkeley, USA, 1980.
- 442) “Steady natural convection in a closed cavity”, Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1980.
- 443) “Mixed layer dynamics and the influence of billowing”, Woods Hole Oceanographic Institute, Massachusetts, USA, 1980.
- 444) “Natural convection in a long cavity”, Northern Western University, Illinois, USA, 1980.
- 445) “Natural convection in a long cavity”, Department of Civil Engineering, University of Western Australia, Perth, Western Australia, 1980.

***Professional Service: Committee Commitments (156):***

**2014**

1. Board Meeting: BP Gulf of Mexico Research Initiative, Mobile, Alabama, 23/01/2014 – 26/01/2014

**2013**

2. Board Meeting: BP Gulf of Mexico Research Initiative, Washington, DC, 17/10/2013 – 19/10/2013
3. Site Visit: BP Gulf of Mexico Research Initiative, Tallahassee, Miami, 9/09/2014 – 14/09/2013
4. Site Visit: BP Gulf of Mexico Research Initiative, College Station, Texas, 14/08/2014 – 16/08/2013
5. BP Science Panel Meeting, Adelaide, 4/06/2013 – 6/06/2013
6. BP Science Panel Meeting, Melbourne, 2/06/2013
7. Board Meeting/ Science Meeting: BP Gulf of Mexico Research Initiative, New Orleans, Louisiana 21/01/2013 – 19/01/2013

**2012**

8. Board Meeting: BP Gulf of Mexico Research Initiative, St Augustine, Florida 13/12/2012 – 15/12/2012
9. Board Meeting: BP Gulf of Mexico Research Initiative, Washington, DC 31/07/2012 – 2/08/2012

**2011**

10. Venice Lagoon International Advisory Board Meeting, Venice, Italy, 14/09/2014– 18/09/2011
11. Board Meeting: BP Gulf of Mexico Research Initiative, Washington, DC, 22/08/2011 – 24/08/2011
12. Board Meeting: BP Gulf of Mexico Research Initiative, Tampa, Florida, 5/05/2011 – 6/05/2011

**2010**

13. Board Meeting: BP Gulf of Mexico Research Initiative, New Orleans, Louisiana, 2/12/2010 – 6/12/2010

**2009**

14. Chair/ Panel: Mine Site Rehabilitation in a Changing Climate, Mine Closure Conference 2009, 09/09/2009, Perth, WA
15. Professional Committee: Meeting for the Scientific Committee of the IAHR Brisbane 2011 Congress, 13/07/2009, Brisbane, QLD

**2007**

16. Advisory Board: Singapore EWT International Advisory Board 2007 - 2010

**2005**

17. Sydney Catchment Authority Board Members 25/02/05. Sydney, Penrith, NSW, 2005

**2003**

18. Editorial Committee: Member: Associate Editor for the Journal of River Basin Management (JRBM). CWR, 2003.
19. Professional Committee: Member: Convenor: Water: Histories, cultures, ecologies Symposium. UWA, 2003.

**2002**

20. Professional Committee: Member: Member of the International Scientific Advisory Committee. Fluxes and Structures in Fluids, 12th Session, St Petersburg, Russia, 2002.
21. Chair UWA/CWR Committee: Chair: Faculty Accommodation Committee. UWA, 2002.
22. Professional Committee: Member: Member of the International Scientific Advisory Committee. 5th International Conference on Hydroinformatics, Cardiff, UK, 2001.
23. Professional Committee: Member: Member of the International Advisory Scientific Board. 5th International Conference on Hydro-Science and Engineering, Warsaw, Poland, 2001.
24. Chair UWA/CWR Committee: Chair of the Faculty Accommodation Committee. Faculty of Engineering & Mathematical Sciences, UWA, 2001.
25. Professional Committee: Member: the International Scientific Advisory Committee. International Symposium on Shallow Flows. 16-18 June 2001. Delft University of Technology, The Netherlands, 2001.
26. Professional Committee: Member: the International Scientific Advisory Committee. 4th International Conference on Reservoir Limnology and Water Quality. Aug 12-16 2002. Ceske Budejovice, Czech Republic, 2001.

**2000**

27. Professional Committee: Member: Organizing Committee, Advanced Environmental Sensing and Monitoring Technologies Workshop. Department of Electrical Engineering, Politecnico di Milano. Milano, Italy. June 26-28 2001, 2000.
28. Review Committee Member for Swedish Natural Science Research Council: Review and site visit of funded projects, 14/02/2000 to 18/02/2000
29. Professional Committee: Chair: Organizing Committee, 6th International Workshop on "Physical Processes in Natural Waters". University of Girona, Spain, 2000.

**1999**

30. Professional Committee: Member: Advisory Committee for the Hydroinformatics 2000. The Iowa Institute of Hydraulic Research, the University of Iowa, USA, 1999.
31. Member UWA/CWR Committee: Undergraduate Student Affairs. CWR, 1999.
32. Chair UWA/CWR Committee: Department of Environmental Engineering Advisory Panel. CWR, 1999.
33. Professional Committee: Member: Scientific Advisory Committee. 14th Australasian Fluid Mechanics Conference, The University of Adelaide, Dec 2001, 1999.
34. Professional Committee: Member: Invited for the Evaluation of Swedish research in Exogenic processes II in 2000. the Swedish Natural Science Research Council, Sweden, 1999.
35. Professional Committee: Member: Sustainable Development Committee. Australian Academy of Technological Science and Engineering, 1999.
36. Member UWA/CWR Committee: Selection committee: Hydrogeology lecturer/senior lecturer. UWA, 1999.
37. Editorial Committee: Member: Editorial Board. "Environmental Fluid Mechanics" Journal by Kluwer Academic Publishers, The Netherlands, 1999.

38. Editorial Committee: Member: Advisory Editor "Limnology". "Limnology" Journal (English version) founded by the Japanese Society of Limnology, 1999.
39. Chair UWA/CWR Committee: Head of Department of Environmental Engineering, CWR. University of Western Australia, 1999.
40. Professional Committee: Member: Selection panel to assess candidates for the Professorial position in the Dept. of Civil Engineering. Selection Committee, James Cook University, Townsville, Queensland, 1999.
41. Professional Committee: Member: International Civil Engineering Conference for Developing Countries in 21st Century. Nairobi, Kenya, 1999.
42. Professional Committee: Member: The Honorary Advisory Committee for AIT 40th Year Anniversary Civil & Environmental Engineering. Asian Institute of Technology, Bangkok, Thailand, 1999.
43. Membership of Professional Organisation: Life Fellowship, The Water Academy. Oslo, Norway, 1999.

### **1998**

44. Professional Committee: Member: The Honourary Advisory Committee for AIT 40th Year Anniversary Civil & Environmental Engineering Conference - New Frontiers and Challenges. Asian Institute of Technology, Bangkok, Thailand, 1998.
45. Professional Committee: Member: Member: Session 4 Selection Committee. Australian Academy of Science, Canberra, Australia, 1998.

### **1997**

46. Professional Committee: Chair: Convenor and Organising Chairman 2nd International Symposium on Ecology and Engineering. Fremantle, WA, Australia, 1997.
47. Professional Committee: Member: UN Nations 7th Session – High Level Advisory Board, Monaco. UN Nations 7th Session – High Level Advisory Board, Monaco, 1997.
48. Media Reference: Professor Wins National Award. News Chronicle- Cottesloe/Claremont; Clunies Ross National Science and Technology Medal, 1997.
49. Media Reference: Engineer Wins Science Award. The West Australian- Carmelo Amalfi- Clunies Ross Award, 1997.
50. Media Reference: Australia's Water link with Israel- Lake Kinneret. The Australian Jewish News- copy sent by Dr Tamar Zohary, 1997.
51. Media Reference: Jörg Imberger... a tour de force, Article by Bob Swinton. Water, 1997.
52. Plenary Presentation: Environmental Engineering: Designing for sustainable development. Engineering Opportunities on the Indian Ocean Rim, 1997.
53. Professional Committee: Member: Advisory Board Member - United Nations Seventh Session - High Level Advisory Board, Monaco. Monaco, 1997.
54. Workshop Attendance: Lake Kinneret: Water Quality Management and Optimisation. Jointly with the Lake Kinneret Research Institute, Israel. Tiberias, Israel, 1997.
55. Professional Committee: Chair: Convenor and Organising Chairman - 2nd International Symposium on Ecology and Engineering, November 1997. Fremantle, WA, 1997.



**1996**

56. Professional Committee: Member: External Environment Committee. External Environment Committee, The University of Western Australia, 1996 .
57. Member UWA/CWR Committee: Environmental Degree Committee. Environmental Degree Committee, the University of Western Australia, 1996

**1995**

58. Professional Committee: Member: Swan-Canning Clean Up Taskforce. Western Australia, 1995.
59. Professional Committee: Member: UN High Level Advisory Board on "Sustainable Development". USA, 1995.
60. Professional Committee: Member: Taskforce Member, Swan-Canning Clean Up Programme. Perth, WA, 1995-.
61. Professional Committee: Inaugural Chair: International Association of Hydraulic Research, Ecohydraulics Section. CWR, Perth, Western Australia, 1995.
62. Professional Committee: Member: Taskforce Member - Swan-Canning Cleanup Programme. Perth, Western Australia, 1995.
63. Professional Committee: Member: Advisory Board Member - United Nations High Level Advisory Board on "Sustainable Development". United Nations High Level Advisory Board, USA, 1995.
64. Professional Committee: Chair: Scientific Director - Sarawak Water Resources Master Plan, funded by PS Konsultant, Malaysia.. Malaysia, 1995.
65. Professional Committee: Chair: Investigator - Chilaw Anchorage and Panadura Inlet, Sri Lanka, to develop fishing boat harbours, funded through the Asian Development Bank. . Sri Lanka, 1995.

**1994**

66. Member UWA/CWR Committee: Member of the Faculty Board of the Faculty of Engineering and Mathematical Sciences, University of Western Australia.. Perth, Western Australia, 1994.
67. Member UWA/CWR Committee: Member of the Management Advisory Council of the Faculty of Engineering and Mathematical Sciences, University of Western Australia. Perth, Western Australia, 1994.
68. Member UWA/CWR Committee: Member Academic Council of the University of Western Australia. Perth, Western Australia, 1994.
69. Professional Committee: Chair: Co-convenor - Symposium on Ecology and Engineering, Nov. 1994. Malaysia, 1994.
70. Professional Committee: Chair: Founding Chairman Western Australian Estuarine Research Foundation. Perth, Western Australia, 1994.
71. Professional Committee: Member: Member Science Advisory Board, Earthwatch. Australia, 1994.
72. Professional Committee: Chair: Scientific Advisor, Bakun HEP Environmental Assessment Project funded by Bakun Management, Sarawak. Sarawak, Malaysia, 1994.
73. Professional Committee: Chair: Convenor and organising chairman, IUTAM Symposium on Physical Limnology 10-14 September 1995. Broome, Western Australia, 1994.

**1993**

74. Chair UWA/CWR Committee: Chairperson of the Centre for Water Research (CWR). CWR, 1993.

75. Chair UWA/CWR Committee: Head of the Department of Environmental Engineering. University of Western Australia, 1993.
76. Professional Committee: Chair: Acting Director Water Research Services, University of Western Australia. , 1993.
77. Professional Review (one unit per day): Review of the Iowa Hydraulics Laboratory, Iowa, USA. , 1993.
78. Professional Committee: Member: Member of a Ministerial Visit to Sarawak ( Host: Hon Paul Omedei). Malaysia, 1993.
79. Professional Review (one unit per day): Informal review of the Hydraulics Program at the California Institute of Technology. , 1993.
80. Professional Review (one unit per day): Review of the Department of Civil Engineering, University of Queensland, Australia. , 1993.
81. Chair UWA/CWR Committee: Host of the Centre for Water Research International Advisory Board meeting, University of Western Australia. CWR, 1993.

### **1992**

82. Chair UWA/CWR Committee: Established the Department of Environmental Engineering at the University of Western Australia. CWR, UWA, 1992.
83. Professional Committee: Chair: Co-chairman for Session 28 (BITEK 1993) SIL Congress. Barcelona, Spain, 1992.
84. Professional Committee: Chair: Chair of the Workshop on Estuarine Modelling. Stanford University, USA, 1992.
85. Member UWA/CWR Committee: Member of Departmental Executive Committee, Department of Civil Engineering, University of Western Australia. UWA, 1992.
86. Professional Committee: Member: Member of the Order of Australia. , 1992 .

### **1991**

87. Professional Committee: Chair: Scientific Director - "BITEK 1993" Lake Biwa transport experiment, funded by the Japan Agency of Science and Technology, and the Shiga Prefectural Government, Japan. Japan, 1991.
88. Technical Consulting: Consultant to the Hydrostudio Consulting Engineers, Rovigo, Italy. Scardovari Lagoon: review of proposed dredging. Italy, 1991.
89. Professional Committee: Member: Invited member of the Western Australian ANSTO Liaison Committee. Perth, WA, 1991.

### **1990**

90. Member UWA/CWR Committee: Management Advisory Committee (MAC). Faculty of Engineering and Mathematical Science, UWA, 1990.
91. Member UWA/CWR Committee: Member of the University of Western Australia Search and Screen Committee for Chair in Mechanical Engineering. , 1990.
92. Member UWA/CWR Committee: Member of the University of Western Australia Division of Engineering and Computer Science Divisional Advisory Council. , 1990.
93. Member UWA/CWR Committee: Elected Member of the Planning and Resources Committee, University of Western Australia. , 1990.
94. Chair UWA/CWR Committee: Chairman of the F S Shaw Memorial Postgraduate Scholarships Advisory Committee at the University of Western Australia. , 1990.

95. Member UWA/CWR Committee: Member of the Working Party into Research Funding, Division of Engineering and Computer Science, University of Western Australia. , 1990.
96. Professional Committee: Member: Corresponding member of the Peer review of the hydrothermal research program, Crater Lake National Park, USA. , 1990.

**1989**

97. Member UWA/CWR Committee: Contract Research Proposals. CWR, 1989. Professional Committee: Member: Member of the International Technical Committee, International Conference on Physical Modeling of Transport and Dispersion. , 1989.
98. Professional Committee: Member: Corresponding Member of the Crater Lake Hydrothermal Peer Review Panel. , 1989.
99. Professional Committee: Member: Member of the American Society of Civil Engineers' Task Committee on Transport Processes at the Interface of Water Column and Bottom Sediment. , 1989.
100. Professional Committee: Member: Member of the Scientific committee for 1991 IABSE Colloquium: The interaction between major engineering structures and the marine environment. , 1989.
101. Professional Committee: Member: Member of the International Scientific Advisory Committee for the International Symposium on Environmental Hydraulics. , 1989.
102. Member UWA/CWR Committee: Member of the University of Western Australia Selection Committee for Chair in Civil Engineering. , 1989.
103. Member UWA/CWR Committee: Member of the University of Western Australia Search and Screen Sub-Committee for Chair in Architecture. , 1989.
104. Member UWA/CWR Committee: Member of the University of Western Australia Faculty of Engineering Executive Committee. , 1989.

**1988**

105. Technical Consulting: Consultant to the Department of Water Resources. The impact of enlargement of the dam wall at Pindari Reservoir, New South Wales. Australia, 1988.
106. Chair UWA/CWR Committee: Chairman for the Review Panel for the Departments of Physical and Inorganic Chemistry and Organic Chemistry, University of Western Australia. Perth, 1988.
107. Professional Committee: Member: Member of the Australian Water Research Advisory Council Working Group. , 1988.
108. Professional Committee: Member: Member of the Task Committee for the Keulegan Conference Symposium. , 1988.
109. Member UWA/CWR Committee: Member of the Department of Civil and Environmental Engineering Planning Committee, University of Western Australia. Perth, WA, 1988.
110. Member UWA/CWR Committee: Elected Member of the University of Western
111. Australia Selection Committee for the Head of the Division of Engineering and Computer Science. , 1988.

**1988**

112. Professional Committee: Member: Member of the Australian Marine Science and Technologies Advisory Committee. , 1987.

113. Chair UWA/CWR Committee: Co-director, Centre for Limnological Modelling, Australian Water Research Advisory Council Centre of Concentration. CWR, 1987.

**1986**

114. Professional Committee: Member: Reviewer of GALCIT program for California Institute of Technology. California Institute of Technology, 1986.

**1985**

115. Professional Committee: Chair: Convenor and organising chairman, IUTAM Symposium on Mixing in Stratified Fluids, 25-29 August 1985 . Margaret River, Western Australia, 1985.
116. Chair UWA/CWR Committee: Founder of the Centre for Water Research as a permanent post-graduate teaching centre at the University of Western Australia. State funds also renewed for a further five years. CWR, 1985.
117. Membership of Professional Organisation: Fellow to the Institution of Engineers, Australia.. , 1985.
118. Professional Committee: Member: Member of the National Committee for Oceanic Sciences, representing the Australian Marine Sciences Association. ,1985.
119. Membership of Professional Organisation: Fellow to the Australian Academy of Technological Sciences and Engineering. Australia, 1985.

**1984**

120. Technical Consulting: Consultant to Kinhill Stearns in Muja Power Station water disposal, Western Australia. WA, 1984.
121. Professional Committee: Chair: Chairman of Subcommittee on Engineering and Applied Science, Australian Research Grants Committee. , 1984.
122. Professional Committee: Chair: Chairman of the Australian National Committee for Theoretical and Applied Mechanics. CWR, 1984.
123. Professional Committee: Chair: President of Australian Marine Sciences Association. , 1984.

**1983**

124. Professional Committee: Member: Member of the Australian National Water Research Council. , 1983.
125. Professional Committee: Member: Member of the International Association for Hydraulic Research Working Group on Environmental Fluid Mechanics. ,1983.
126. Professional Committee: Member: Member of the Australian Research Grants
127. Committee Subcommittee on Engineering and Applied Science. , 1983.

**1982**

128. Professional Committee: Member: Member of the National Committee on Coastal and Ocean Engineering, Australia. , 1982.
129. Professional Committee: Member: Associate Member, ICID Australian National Committee. , 1982.
130. Chair UWA/CWR Committee: Director of the Centre for Environmental Fluid Dynamics (CEFD). This Centre was created by the Australian Federal Government under the scheme to further excellence in Universities, 10 were awarded nationwide. The theme is the study of mixing in a stratified fluid. CWR, 1982.
113. Chair UWA/CWR Committee: Director of the Centre for Water Research CWR). A mission oriented research organisation created to address water related problems. Funded

by the University of Western Australia and the State Government of Western Australia. The Director administers all projects and directly supervises some projects.. CWR, 1982.

**1981**

- 131. Chair UWA/CWR Committee: Head of the Department of Civil Engineering, University of Western Australia. CWR, 1981.
- 132. Professional Committee: Member: Member of the National Committee for Theoretical and Applied Mechanics. , 1981.
- 133. Professional Committee: Member: Committee Member of the CSIRO Post-doctoral Awards. , 1981.
- 134. Editorial Committee: Member: Member of the Australian Journal of Marine and Freshwater Research, Editorial Board. , 1981.

**1980**

- 135. Professional Committee: Chair: Chairman, Technical Sub-committee, Water Research Foundation of Australia. , 1980.

**1979**

- 136. Professional Committee: Member: Committee Member, CSIRO Regional State Committee on a preliminary study into Western Australia's needs and future research programmes in physical oceanography.. , 1979.
- 137. Professional Committee: Member: Committee Member, Research Status
- 138. Subcommittee of the Steering Committee on Research into the effects of the woodchip industry on water resources in south Western Australia. , 1979.
- 139. Professional Committee: Member: Committee Member, CSIRO Committee, Review of Ocean Sciences in Australia and the Division of Fisheries and Oceanography.. , 1979.
- 140. Editorial Committee: Member: Associate Editor, Journal of the Australian Mathematical Society (Series B). , 1979.
- 141. Professional Committee: Member: Member of the Water Research Foundation of Australia, WA State Committee. , 1979.
- 142. Professional Committee: Member: Member of the International Association of Hydraulic Research Committee on Fundamentals. , 1979.
- 143. Editorial Committee: Member: Contributing Editor, Lecture Notes on Coastal and Estuarine Studies, American Geophysical Union. , 1979.

**1978**

- 144. Chair UWA/CWR Committee: CWR Board, CWR Meeting. CWR, 1978.
- 145. Workshop Attendance: Invited participant in Salt Marsh Meeting (National Science Foundation), Sapelo Island, Georgia, USA. , 1978.
- 146. Professional Review (one unit per day): Reviewer - Proceedings of the International Coastal Engineering Conference. , 1978.

**1977**

- 147. Study Leave: Visiting Scientist (1 month), . University of Georgia Marine Institute, Sapelo Island, Georgia, USA., 1977.
- 148. Professional Committee: Member: Member of the Marine Advisory Committee of San Francisco Bay, USA. , 1977.
- 149. Professional Committee: Member: Member of the American Society of Civil Engineers working group on hydraulic modelling. , 1977.

**1976**

150. Technical Consulting: Consultant to the Association of Bay Area Governments (ABAG) on the study of. , 1976.

**1975**

151. Technical Consulting: Consultant to the Metropolitan Water Board of the City of Perth on an experimental investigation of groundwater pollution from the Hertha Road Landfill in the City of Stirling, Perth, Western Australia. , 1975.
152. Technical Consulting: Consultant to the Metropolitan Water Board of the City of Perth on the modelling of water motions within the Mt Yokine Service Reservoir, Perth, Western Australia. , 1975.
153. Professional Committee: Member: Member of the Hydrology Branch Committee of the Institution of Engineers, Australia. , 1975.
154. Professional Committee: Member: Panel Member, La Porte Effluent Disposal Committee, Perth, Western Australia. , 1975.
155. Professional Committee: Member: Member of the Australian Academy of Sciences Subcommittee on the Physics of the Ocean, Australia. , 1975.
156. Professional Committee: Member: Member of the International Association for the Physical Sciences of Oceans, Working Group 57 on Coastal and Estuarine Regimes, Australia. , 1975.

***Professional Service: Service to Industry: Technical Consulting (40) :***

**2004 ->2014**

No consulting, only teaching, research and community service

**2003**

1. Technical Consulting: Science Panel, Salt Pond Restoration, San Francisco Bay Project. San Francisco, 2003.

**2001**

2. Technical Consulting: Improving water quality in Brownlee Reservoir. Idaho Power Company, Boise, USA, 2001.

**1999**

3. Technical Consulting: Consultant to Fluor Daniel Pty Ltd on Drainage Shadow. Coondewanna Flats, Western Australia, 1999.

**1993**

4. Technical Consulting: Consultant to Waterways Commission on Flushing of Wilson Inlet, Western Australia. 1993.
5. Technical Consulting: Consultant to Sinergos Consultores on Flushing of the Valdivia Estuary, Chile, 1993.

**1992**

6. Technical Consulting: Consultant to IPROS on the study of the dynamical processes in Lago di Lago and Lago di S Maria and the impact of proposed modifications to the topography of the lakes. IPROS, s.r.l. Recherche E Progettazioni Idrauliche. Padova, Italy, 1992.
7. Technical Consulting: Consultant to IPROS on Cammazole Lake and Barbamarco Lagoon. Padova, Italy, 1992.
8. Technical Consulting: Consultant to Clough Engineering. Shark Bay Salt Joint

Venture. Advised on mechanisms of leakage at Useless Loop, Western Australia. 1992.

**1991**

9. Technical Consulting: Consultant to the Hydrostudio Consulting Engineers, Rovigo, Italy. Scardovari Lagoon: review of proposed dredging. Italy, 1991.

**1990**

10. Technical Consulting: Expert Witness for West Australian court case of Amtel Inc. (trading as IMODCO) v BHP Petroleum Pty Ltd (case settled September 1990). 1990.

**1988**

11. Technical Consulting: Consultant to the Department of Water Resources. The impact of enlargement of the dam wall at Pindari Reservoir, New South Wales. Australia, 1988.
12. Technical Consulting: Consultant to Esso Petroleum, advised Esso on scour of offshore structures in Western Australia. 1988.
13. Technical Consulting: Consultant to Kinhill Engineers, advised Kinhill on reservoir management strategies of Manton Dam, Northern Territory, Australia. 1988.

**1987**

14. Technical Consulting: Consultant to Montgomery Hosking Stone Pty Ltd, Adelaide on the Myponga Reservoir, destratification study for the Engineering and Water Supply Department, South Australia. 1987.
15. Technical Consulting: Consultant to Department of Water Resources, Destratification of Split Rock Dam, New South Wales, Australia. 1987.

**1986**

16. Professional Committee: Member: Reviewer of GALCIT program for California Institute of Technology. California Institute of Technology, 1986.
17. Technical Consulting: Consultant to Peter Chappell Town Planning Consultants on Proposed Extension to Yunderup Canals, Western Australia. , 1986.
18. Technical Consulting: Consultant to the Department of Civil Engineering, Stanford University, USA, regarding the restructure of the hydraulics section. 1986.

**1985**

19. Technical Consulting: Consultant to Ministerial report on the Sorrento Marina, Western Australia. 1985.
20. Technical Consulting: Consultant to Woodside Offshore Petroleum on Scour around Offshore Platforms, Western Australia. 1985.

**1984**

21. Technical Consulting: Consultant to Dames and Moore on Jaburu project, Western Australia. WA, 1984.
22. Technical Consulting: Consultant to Kinhill Stearns in Muja Power Station water disposal, Western Australia. WA, 1984.
23. Technical Consulting: Consultant to Hosking, Oborn & Partners in Gulf Point Marine. , 1984.

24. Technical Consulting: Consultant to Mining and Processing Pty Ltd on Rum Jungle Treatment Plant. Northern Territory, Australia, 1984.
25. Technical Consulting: Consultant to Esperance Port Authority on Esperance Harbour Alterations. Western Australia, 1984.

**1982**

26. Technical Consulting: Consultant to Woodside Offshore Petroleum on tidal currents on the North West Shelf, Western Australia. , 1982.
27. Technical Consulting: Consultant to the Department of Housing and Construction on HMAS Stirling, Armament Jetty, Sulphur Bay, Western Australia. 1982.
28. Technical Consulting: Consultant to the Sunland Development on the Canal Estate Design, Western Australia. 1982.
29. Technical Consulting: Consultant to the State Energy Commission on mixing in Koombana Bay, Western Australia., 1982.

**1981**

30. Technical Consulting: Consultant to Gutteridge Haskins Davey & Dwyer on the Canal Estates in Peel Inlet, Western Australia. 1981.

**1978**

31. Technical Consulting: Consultant to Steedman Ltd, Australia, (yearly contract)., 1978.
32. Technical Consulting: Consultant to Woodside Offshore Petroleum, Australia, (yearly contract)., 1978.

**1977**

33. Study Leave: Visiting Scientist (1 month),. University of Georgia Marine Institute, Sapelo Island, Georgia, USA., 1977.
34. Professional Committee: Member: Member of the Marine Advisory Committee of San Francisco Bay, USA., 1977.
35. Technical Consulting: Consultant to the Waterfront Design Associates on the design of the East Bay discharge system, San Francisco, California, USA., 1977.

**1976**

36. Technical Consulting: Consultant to the Association of Bay Area Governments (ABAG) on the study of.,1976.

**1975**

37. Technical Consulting: Consultant to the Metropolitan Water Board of the City of Perth on an experimental investigation of groundwater pollution from the Hertha Road Landfill in the City of Stirling, Perth, Western Australia. 1975.
38. Technical Consulting: Consultant to the Metropolitan Water Board of the City of Perth on the modelling of water motions within the Mt Yokine Service Reservoir, Perth, Western Australia.,1975.
39. Technical Consulting: Consultant to the Public Works Department on water quality monitoring in Lake Argyle, Western Australia.1975.



**1971**

40. Technical Consulting: Consultant to PGE, San Onofre Power Plant, California, USA. , 1971.

**Community Service:** Presentations to Community Groups such as Rotary & Probus (122), media interviews (>600) and pro bono design and modeling contributions for local projects (7).

**Community Service: Presentations: 123**

**2014**

- 1) “You can lead the horse to water, but you cannot make it drink: the dilemma of achieving sustainability in Western Australia”, Institution of Engineers Australia, Murray St Perth, 31/03/2014.

**2013**

- 2) “Establishing the suitability of Lake Argyle for carbon sequestration and aquaculture: Heating Phase”, presentation given, Lake Argyle Resort, Kununurra, 02/12/13
- 3) “Responses to Climate Change”, presentation given, Probus Club of Melville, Perth, Australia, 03/04/2013
- 4) “Response to Climate Change”, guest speaker, Ladies Probus Club of Dalkeith, Perth, Australia, 20/05/2013
- 5) “Implications of the way we live”, presentation given, Rotary Club of Attadale, Perth, Australia, 10/07/2013
- 6) “How to save the Swan River: Plant trees”, presentation given, Dalkieth/Nedlands Mixed Probus Club, Perth, Western Australia, 08/07/2013
- 7) “The Treasures of the Southwest of Western Australia: The Implications of the Way We Live”, presentation given, GCSAWA, Margaret River, Western Australia, 05/08/13
- 8) “The Hydrodynamics of Large Lakes and the Implications for Carbon Sequestration, seminar given, Blakers Lecture Theatre, UWA, Perth, 09/10/2013
- 9) “The Future of Western Australia: The Lost Opportunity”, Guest Speech at Rotary Club, Parmelia Hilton Hotel, Perth, 09/11/2012

**2012**

- 10) “Living Sustainably: Opportunities For Western Australia”, presentation given, Horticultural Media Association talk, 10/01/2012
- 11) “The Future of Western Australia: The Lost Opportunity”, Guest Speech at Rotary Club, Parmelia Hilton Hotel, Perth, 09/11/2012
- 12) “Talk on Responses to Climate Change”, guest speaker, North Coast Probus Club, Perth, Australia, 05/01/2012
- 13) “Death of the Swan Canning Estuary: Can it be revived?”, presentation given, WA Underwater Photographic Society, Perth, WA, 23/01/2012
- 14) “Lake Monger Reserve Working Group Meeting”, presentation given, Perth, Australia, 19/01/12
- 15) “ Preliminary results on Lake Argyle Field trip”, presentation given, Kununura, WA, Australia, 31/05/12

**2011**

- 16) "Reversing Rainfall Decline Using Native Vegetation Agriculture in South West Western Australia", presentation given, NRM Regional Leaders Group, 18/02/11
- 17) "Sustainability, Batavia Coast Maritime Institute", Geraldton, WA, 27/06/11
- 18) "Nature's Garden: The South West of WA", presentation given, Youth Science Summit, Mid West Development Commission, Geraldton, WA 29/06/11
- 19) "Water Crisis in WA", presentation given, Murdoch Probus Club, 02/01/11
- 20) "Lake Argyle", presentation given, Recfishwest Board, Watermass, WA, 29/03/11
- 21) "Response to Climate Change: Deny, Prevent, Adapt", public forum, Moore Cowan regional Greens, WA, 04/06/11
- 22) "On Lake Argyle and Swan Canning Real-Time Management System Online", briefing, WA Department of Fisheries, Perth, 18/04/11
- 23) "Developing Water Resource Options for WA", public forum, Busselton Naturalist Club, 11/05/11
- 24) "Swan Canning Real-Time Management System Online", briefing, Rotary Club of Mill Point, Perth 13/05/11
- 25) "title missing", seminar given, Westcoast Community Group, Perth, 24/05/11
- 26) "Responses to Climate Change", seminar given, Perth Probus Club, Perth, 13/06/11
- 27) "Living Sustainably: Opportunities for Western Australia", lecture given, Turf Research Committee, Perth, 13/07/11
- 28) "Adaptive Real-time Management for the Swan-Canning Online", presentation given, Peel Harvey Catchment Council, Mandurah, WA, 21/07/11
- 29) "Adaptive Real-time Management for the Swan-Canning Online", presentation given, Regional Development Australia Peel, Mandurah 21/07/11
- 30) "Responses to Climate Change", lecture given, Bedford Combined Probus Club, Perth, 15/08/11
- 31) "Real-time Management System", presentation given, Peel Regional Leaders Forum, Council Chambers, Shire of Murray Offices, Pinjarra, WA, 18/11/11
- 32) "Lake Monger and Real-time Management System Online", seminar given, Demonstration to Alannah MacTiernan, Mayor of Vincent, Centre for Water Research, UWA, Perth, 21/11/11
- 33) "Health of Swan River", briefing, 1<sup>st</sup> Water Forum, Blakers Lecture Theater, UWA, Perth, 01/12/11

## **2010**

- 34) "Adaptive Real-time Management for the Swan-Canning Online", presentation, Swan-Canning Local Government Policy Forum (C21), Perth, 20/08/10,
- 35) "Adaptive Real-time Management for the Swan-Canning Online", presentation, FESA, Perth, 12/08/10,
- 36) "Adaptive Real-time Management for the Swan-Canning Online", presentation, WESROC Executive, Perth, 04/08/10,
- 37) "Adaptive Real-time Management for a Sustainable Future", lecture given, Sir Charles Court Young Leaders Program, Curtin University, Perth, 05/07/10,
- 38) "Adaptive Real-time Management: The CWR Vision", presentation given, Melville Rotary Club, Perth, 05/07/10,
- 39) "Adaptive Real-time Management System Online", presentation given, Briefing for Cockburn Sound Management Council, Perth, 25/06/10,

- 40) "Adaptive Real-time Management: The CWR Vision", presentation given, Nedlands Rotary Club, Perth, 24/06/10,
- 41) "Adaptive Real-time Management: The CWR Vision", presentation given, Scarborough Rotary Club, Perth, 24/06/10,
- 42) "Adaptive Real-time Management: The CWR Vision", presentation given, National Party Briefing, WA Parliament House, Perth, 22/06/10,
- 43) "Leaving Behind the Old, Building the New", presentation given, Kelvin Thomson MP Population Reform Breakfast Forum, Perth, Australia, 07/05/10,
- 44) "A Vision for the South West", Rotary District 9450 Annual Conference, Perth, Australia, 17/04/10,
- 45) "Adaptive Real-time Management: The CWR Vision", presentation given, presented for K Water visitors to CWR, UWA, Perth, 17/06/10,
- 46) "Adaptive Real-time, Self Learning River Basin Living: Challenges", seminar, Computer Science Seminar Series, UWA, Perth, 11/06/10,
- 47) "Real-time monitoring of our estuary and coastline: Understanding the impact of the dredging at Fremantle Port on the coast and the Swan-Canning River Basin", public forum, hosted by Swanbourne Coastal Alliance, Perth, 10/06/10,
- 48) "Adaptive Real-time Management for our coastline and the Swan-Canning River Basin", presentation given, Fremantle Ports Staff, Perth, 10/06/10,
- 49) "Adaptive Real-time Management: The CWR Vision", presentation given, Dalkeith Rotary Club, Perth, 31/05/10,
- 50) "CWR's Real-time Management Systems Lunch-time Briefing for Environmental Officers", presentation given, Perth, 11/05/10
- 51) "CWR's Real-time Management Systems Lunch-time Briefing for City of South Perth Management", presentation given, Perth, 29/04/10
- 52) "CWR's Real-time Management Systems Lunch-time Briefing for Fremantle Ports Staff", presentation given, Perth, 13/04/10
- 53) "Engineering in 2030", lecture given, Worley Parsons Lunch-time Seminar Series, Perth, 04/03/10

#### **2009**

- 54) "Adaptive, Real Time, Self Learning River Basin Living", seminar given, Nedlands Yacht Club Regatta Committee Meeting, 03/08/09

#### **2008**

- 55) "Life in a Changing Climate", seminar given, Twenty Club, Weld Club, Esplanade, Perth, Western Australia, 08/07/08

#### **2007**

- 56) "Water in a Changing Climate: Implications for Western Australia", presentation, Abbey Beach Resort, Busselton, Western Australia, 03/05/07

#### **2006**

- 57) "The constancy of change: Disengaging from reality", lecture, Cook Society, Weld Club, Perth, 23 October, 2006
- 58) "The Future of Water in Western Australia", lecture, Council for the National Interest, Royal Perth Yacht Club, 18 September, 2006
- 59) "Cleanliness is next to Godliness", lecture, Rotary Club West Perth, Tawarri Reception Centre, Esplanade, Dalkeith, Western Australia, Australia, 14 September, 2006
- 60) "Will the record dry winter provide the needed wake up call to the WA Govt? ", presentation, Liberal Party, Curtin, 39 Kirwan St, Floreat, 6/9/06

- 61) "Cleanliness is next to Godliness", lecture, Probus Talk, Dalkeith Bowling Club, 09/08/06

**2005**

- 62) "Health of the Swan River Estuary", WA Chinese Chamber of Commerce Coffee Shop Forum,. Hyatt Hotel, Perth, 23/2/05  
63) "The Index of Sustainable Functionality" City of Joondalup, Council Meeting Presentation.

**2004**

- 64) "Are we moving towards sustainability?", presentation, Guilderton Community, Moore River. Lawrence Wilson Art Gallery, UWA, 22/3/04  
65) "The Science of Water", presentation, National Environmental Law Assoc Conf 2004, The Old Swan Brewery, Crawley, Western Australia, 30/9/04  
66) "Desalination", presentation, Karrinyup Rotary Club. Gleneagles Reception Centre, Karrinyup, Western Australia, 8/9/04  
67) "Opportunities in Sustainability?,". IDEO, San Francisco, 19/4/04

**2003**

- 68) "UWA Extension: Sanitising the Corpse: The Job of an Environmental Engineer?", UWA, 2003.  
69) " Water in a changing climate", seminar/workshop, Mt Lawley Rotary Club Seminar:. Mt Lawley Rotary Club, 2003.  
70) "Are we moving towards sustainability?", presentation, J.N. Kirby Award presentation (IEE). Celtic Club, West Perth, 2003.  
71) "Senior Managers Forum, CWR Performance Management. UWA, 2003.  
72) "Water in a changing climate: implications for urban development", presentation, AIUS Luncheon Seminar: Perth, 2003  
73) "Sanitising the Corpse: The Job of an Environmental Engineer?", Ninham Shand (South) Inc.:. Cape Town, South Africa, 2003  
74) "Water in a changing climate", Matilda Bay Rotary Club Breakfast Seminar:. Matilda Bay Restaurant, 2003.  
75) "Water in a changing climate", H2O Open Day, Margaret River Speaker:. Margaret River, 2003

**2002**

- 76) " Lake Management", presentation given, SCA, Sydney, 2002.  
77) " Journey to Lake Kinneret", seminar given, Boise Synagogue Community Service, Boise, USA, 2002.

**2001**

- 78) "Leaving kindergarten and heading into the 21st century", lecture given, University of Western Australia Extension - summer school, 08/01/01.

**2000**

- 79) " The ethical dilemma of change: The role of the engineer", presentation given, Christchurch Grammar School, Perth, Western Australia. Year 11 students, 15/06/00.  
80) " The cumulative impact of development on sustainability and biodiversity in river basins", lecture given, University of Western Australia - Extension winter lecture series. Water & Western Australia - is there a positive future?, 20/06/00.

**1999**

- 81) "Why did I come back to Western Australia: free spirit", lecture given, Jewel of the South West presentation and film on Walpole Wilderness in Western Australia, 1999.
- 82) "How does the estuary work?", lecture given, Western Australian Estuary Research Fund Community Forum, University of Western Australia, Perth, 1999.

**1998**

- 83) "How does the estuary work?" lecture given, Social Science Lecture Theatre, University of Western Australia, Perth, WA, 1998.
- 84) "CWR Capabilities" lecture given, Northside Storage Tunnel, Australia, 1998.

**1997**

- 85) "The Underwater World, Hillary's Boat Harbor", lecture given, Balga Senior High School - Year 12 Graduation Ceremony. WA, 1997.
- 86) "Flow regimes in natural aquatic systems", 2nd International Symposium on Ecology and Engineering, Esplanade Hotel, Fremantle, WA, Australia, 1997.

**1996**

- 87) "Getting the Science Right", lecture given, Swan River Public Forum, Octagon Theater, UWA, Australia, 1996.
- 88) "Hydrodynamics of estuaries and implications for ecological models", lecture given, Press Centre, Berns Congress, Stockholm, Sweden, 1996.
- 89) "Swan River Public Forum on World Environment day", lecture given, University of Western Australia, Perth Western Australia., 1996.

**1995**

- 90) "Swan River destratification". Environmental Protection Authority, Perth, WA, Australia, 1996.
- 91) "Swan River destratification". Swan/Canning River Task Force Meeting at the Western Australian Cricket Association (WACA) ground Perth, WA, 1996.
- 92) "Plans for a sustainable development of the world: A UN Perspective". College of Engineering at the Arizona State University in Tempe, Arizona, USA, 1996.
- 93) "The Role of the Centre for Water Research in understanding aquatic systems", Sinclair Knight Merz Melbourne, Victoria, 1996.

**1994**

- 94) " Small transport processes in Lake Biwa", presentation given, AMOS, Bureau of Meteorology, Perth, Western Australia, 1994.
- 95) " Mixing and transport in a stratified lake", presentation given, AMOS, Bureau of Meteorology Melbourne, Australia, 1994.
- 96) "title missing", presentation to public forum on Swan River, Swan River Forum, University of Western Australia, Perth, Western Australia, 1994.

**1993**

- 97) "Leading a research group", lecture given. Effective Leadership in Research Teams Symposium, Perth, Western Australia, 1993.
- 98) "Destratification. Some rational design rules", Australian Water and Wastewater Association, 15th Federal Convention, Gold Coast, Australia, 1993.

99) "Flushing of Wilson Inlet", Wilson Inlet Conservation Society, Denmark, Australia, 1993.

**1992**

100) "Hydrodynamics of the Swan", Swan River - The future, Workshop Programme. Co-authored with R. Stephens, UWA Masters student. Murdoch University, Perth, Western Australia, 1992.

**1991**

101) "The Venice Lagoon and its water quality problems", lecture given. Dante Alighiere Society, Perth, Western Australia, 1991.

102) "Mixing in the coastal regime", presentation given, West Australian Fisheries Industry Council Seminar, Perth, Western Australia, 1991.

**1990**

103) "Some thoughts on mixing in the hypolimnion of a lake", seminar given, Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1990.

**1989**

104) "Building a Research Centre", lecture given, Australian Water Research Advisory Council, Canberra, Australia, 1989.

105) "Vertical heat flux in the hypolimnion of a lake", presentation given, Tenth Australasian Fluid Mechanics Conference, Melbourne, Australia, 1989.

**1988**

106) "Destratification of Reservoirs", Hydrology and Water Resources Panel, Perth, Western Australia, 1988

**1987**

107) "The Greenhouse Effect: What it could mean to the Pilbara", lecture given, Karratha College, Karratha, Western Australia, 1987.

108) Turbulent motions in a surface buoyant jet. Department of Physics, University of Western Australia, Perth, Western Australia, 1987.

**1986**

109) "Looking forward", lecture given, Australian Marine Sciences Association, Hobart, Australia, 1986.

110) "Mixing of momentum, energy and mass in a stratified fluid", presentation given, Marine Science and Technology Forum, Perth, Western Australia, 1986.

**1985**

111) "The diurnal surface layer", presentation given, Australian Physical Oceanographers' Conference, Hobart, Australia, 1985.

112) "Measuring systems in water quality. Department of Chemistry", University of Western Australia Perth Western Australia, 1985.

**1984**

113) "Temperature stratification in lakes and reservoirs", Department of Physics, University of Western Australia Perth Western Australia, 1984.

114) "Tidal jets in Koombana Bay", Department of Mathematics, University of Western

Australia Perth Western Australia, 1984.

**1983**

- 115) "Turbulence in a selective withdrawal layer", lecture given, Applied Mathematics Conference, 1983.
- 116) "Scaling of the environment", lecture given, Great Barrier Reef Workshop, Townsville, Australia, 1983.

**1981**

- 117) "Mixing in the coastal zone", presentation given, Shelf wave workshop Cronulla, Australia, 1981.
- 118) "Modelling components of the hydrological cycle", presentation given, The Cletus Oakley Address for gifted students, Perth, Western Australia, 1981.
- 119) "A facility to study fine scale structure in lakes, reservoirs and coastal seas", presentation given, Annual meeting of Australian Oceanographers. CSIRO, Cronulla, Australia, 1981.
- 120) "Finescale structure in coastal seas", presentation given, 5th Australian Conference on Coastal Engineering, Perth, Western Australia, 1981.

**1980**

- 121) "The influence of stream salinity on reservoir water quality". Land and stream salinity seminar and workshop, Perth, Western Australia, 1980.
- 122) "Steady natural convection in a closed cavity", Environmental Dynamics Seminar, University of Western Australia, Perth, Western Australia, 1980.
- 123) "Natural convection in a long cavity", Department of Civil Engineering, University of Western Australia, Perth, Western Australia, 1980.

**Community Service: Media References:**

**2004 -> 2014**

No records kept

**2003**

Media Reference: WA Newspaper Bronwyn Peace Interview on Council using sprinklers during the day. CWR, 2003.

Media Reference: WA Newspaper Bronwyn Peace Interview on swimming pool water usage. CWR, 2003.

Media Reference: The Australian Newspaper Belinda Hickman interview on Premiers Water Strategy. CWR, 2003.

Media Reference: 6PR Interview on State Water Strategy 10.2.03. CWR, 2003.

Media Reference: ABC News Television Interview on Premier's Water Strategy. CWR, 2003.

Media Reference: News: Water tariffs slug for families, Belinda Hickman, Friday 14th Feb 2003. The Australian Newspaper, 2003.

Media Reference: ABC Stateline News Interview on Premier's Water Strategy. CWR, 2003.

Media Reference: Interview from various media at the Ozwater Conference. Burswood, Perth, 2003.

Media Reference: Australian Associated Press phone interview on Water Strategy, Karen Valenta. CWR, 2003.

Media Reference: News: Wed 14/5/03, Mushrooming courses help make the

world your oyster, by Dorothy Illing. The Australian Newspaper, 2003.  
Media Reference: News: Wed 21/5/03, H2-go, Margaret River Cultural Centre, H2O Open Day. Augusta Margaret River Mail, 2003.  
Media Reference: News: Thursday 22/5/03, Focus on waterways. Busselton-Margaret Times, 2003.  
Media Reference: News: Strategies in water and utility management. Article included overview of AWA paper by Jorg Imberger and Jason Antenucci "The effectiveness of reservoirs as water quality barriers.". Engineers Australia Vol 75 No 5, May 2003, p 53-54, 2003.  
Media Reference: News: Water's on their minds, Sat 31/5/2003. Subiaco Post, pg 23, 2003.  
Media Reference: GWN Bunbury Interview by Brad Hodson: UNYC 2003 speech. CWR, 2003.  
Media Reference: Water heat turned on farmers, by Peter Trott. West Australian, Wed 9/7/03, Pg 15, 2003.  
Media Reference: Aboriginal key to water talk by Peter Trott. West Australian, Sat 12/7/03, Pg 34, 2003.  
Media Reference: Water claim 'outrageous'. Albany Advertiser, Tues 15/7/03, Pg 8, 2003.  
Media Reference: Water claim 'outrageous'. Narrogin Observer, Wed 16/7/03, Pg 10, 2003.  
Media Reference: Interview by ABC Radio, Chatroom, on Water claims, Russell Wolfe & Tony Cooke. ABC Radio Perth, Adelaide Tce, 2003.  
Media Reference: Call for wider focus on water by Peter Trott. West Australian, Wed 23/7/03, Pg 38, 2003.  
Media Reference: Water claim 'outrageous'. Great Southern Herald (WA), Wed 16/7/03, Pg 6, 2003.  
Media Reference: Water claim 'outrageous'. Countryman (WA), Thurs 17/7/03, Pg 4, 2003.  
Media Reference: Steep water charges proposed for irrigation farmers. Northern Guardian, Wed 23/7/03, Pg 4, 2003.  
Media Reference: Charges on water and 'windy' cows unsustainable. Business news (WA), Thurs 17/7/03, Pg 27, 2003.  
Media Reference: Interview by ABC Radio, 4 Wisemen segment, Russell Wolfe & Verity James, "Has an academic become a dirty word". ABC Radio Perth, Adelaide Tce, 2003.  
Media Reference: Kimberley artists meet city kids. Broom Advertiser, Fri 15/8/03, Pg 7, Broome Happenings, 2003.  
Media Reference: UWA team blitzes education. Business News, 28/8/03, Pg 20, Engineering Week, 2003.

## **2002**

Media Reference: Canada learns from our water expert, article on UWANews, 22/4/02. UWA, 2002.  
Media Reference: Internal Wave Study - Bodensee Project. Germany, Austria and Switerzland television, 2002..  
Media Reference: News - The grim reality of state's water future, Weekend Australian, 20-21 July, Western Australia, p.6. Weekend Australian, 2002.  
Media Reference: Television interview - Channel 7 News 1/8/02. Perth, 2002.  
Media Reference: Television interview - ABC News 1/8/02. Perth, 2002.  
Media Reference: Television interview - Channel 10 News 1/8/02. Perth,



2002.

Media Reference: Radio interview - 6PR with Graham Mabury 1/8/02. Perth, 2002.

Networking : Drinks with Institute of Advanced Studies Board . UWA, 2002.

Media Reference: Television interview - ABC News 2/8/02. Perth, 2002.

Media Reference: Perth 92.9 Radio News 8:00AM AWST 5/8/02 (Nic Nolan) Water Forums. . Perth, 2002.

Media Reference: Perth Mix 94.5 Radio News 8:00AM AWST 15/8/02 (Nic Nolan) WA Water Problems . Perth, 2002.

Media Reference: Perth 6PR 8:35AM AWST 5/8/02 Paul Murray suggests the West Australian supports idea of higher domestic prices for perth's water - refers to Prof Jorg Imberger of UWA. Perth, 2002.

Media Reference: The West Australian 5/8/02 . Perth, 2002.

Media Reference: Perth ABW2 State Television news . Perth, 2002.

Media Reference: Television interview - Channel 7 News 7/8/02. Perth, 2002.

Media Reference: Radio interview - RTRFM with Chris Spurr and Robert Campbell, 8/8/02. Perth, 2002.

Media Reference: Television interview - Channel 9 News 13/8/02 . Perth, 2002.

Media Reference: Telephone interview - Tim Treadgold, Reuters International Newsagency 13/8/02 Water supply issue. Perth, 2002.

Media Reference: Article in the West Australian on Water Price 13/8/02. Perth, 2002.

Networking : Reception for the recipients of Australian Honours. UWA, 2002.

Media Reference: News article - Plan to combat water crisis. The Australian 20/9/2002, 2002.

Media Reference: THE ECONOMICS OF WATER USE . West Australian Business News Thursday, 26 September 2002, 2002.

Media Reference: INDUSTRY TO EMBRACE RECYCLING SCHEMES. West Australian Business News Thursday, 26 September 2002, 2002.

Media Reference: ABC News Television Interview with Peter Kennedy on

## **2001**

Media Reference: Radio Interview re: Open Day Talk Report into farming in the wheatbelt and research showing that farmers have wrecked the Swan/Avon valley. ABC WA REGIONAL RADIO WA Country Hour 12:16PM AWST Thursday, 10 May 2001, 2001.

Media Reference: UWA Open Day Talk. ABC NATIONAL REGIONAL RADIO National Rural News 12:06PM AEST Friday, 11 May 2001 Producer: Mr Belinda Varsuetti 03 9626 1146, 2001.

Media Reference: Radio Interview - Environment and Agriculture. RTR FM 2.1, 2001.

Media Reference: News (journal) article on CWR - An overview of the Centre for Water Research. AWA Journal, Water, 2001.

Media Reference: Perth 6PR Radio Interview - Water Conservation. Centre for Water Research, 2001.

Media Reference: Television interview - Water Conservation. ABC "Stateline". Centre for Water Research, 2001.

Media Reference: Television interview (news) - Water conservation. Channel 10. Centre for Water Research, 2001.

**2000**

Member UWA/CWR Committee: Selection committee: Hydrogeology lecturer/senior lecturer . CWR, 2000.

Member UWA/CWR Committee: CWR Post Graduate Student Coordinator. CWR, 2000.

Media Reference: Jorg Imberger: For the expert in fluid mechanics, it all boils down to water. The Australian 19/1/00 weekend magazine, 2000.

Media Reference: "Funding Cuts a Threat to Rivers' Doctors" Reporter: Liz Tickner. The West Australian Page 4 15/2/00, 2000.

Media Reference: News Talk. ABC Radio 720 6WF 15/2/00 John MacNamara, 2000.

Media Reference: Professor warns of new algal threats. The West Australian 16/2/00 Reporter: Wendy Pryer, 2000.

Media Reference: Article on water Extensions program. The West Australian, 2000.

Media Reference: Interview about water Extensions program. Radio 6NR 927 AM Newswatch program, Ben Boardman, 2000.

Media Reference: Dive into water course. The Post 24/6/00 article on Extension program, 2000.

**1999**

Media Reference: Lake Pamvotis article in Earth 2000. The West Australian, 1999.

**1998**

Media Reference: Swan-Canning Rivers. Editorial in The West Australian by Paul Murray, 1998.

Media Reference: WAERF - Algal Blooms. The West Australian by Geradline Capp, 1998.

Media Reference: CWR Scholarship. Picture and article in The Post about Jorg and 1st year student Sally Thompson by Judy Ewing, 1998.

Media Reference: UWA in South American Deal- Lake Maracaibo. Campus Review, 1998.

Media Reference: CALM Holidays Lead to Exciting Career- Sally Thompson CWR Scholarship Winner. UWA Leader, 1998.

Media Reference: Newspaper article. Keepers Series in Earth 200 Supplement in The West Australian, 1998.

**1997**

Media Reference: Article about Lake Kinneret in The Canberra Times Cheryl Jones, Science Reporter. , 1997.

Media Reference: \$1.6 million drive to revive Greek Lake. Campus Review- Maureen de la Harpe, 1997.

Media Reference: WA Help to rescue Greek Pearl. The West Australian- Carmelo Amalfi- photo of David Hamilton and Amalia Bithata, 1997.

Media Reference: My Point of View: Client Based Universities - Professor Jörg Imberger. Water, 1997.

Media Reference: Modelling Achievements. Water, 1997.

Media Reference: Ocean, Land, atmosphere interplay on global environment.

Sweden Today- Article about Stockholm Water Prize, includes photo of JI, 1997.

Media Reference: Professor Wins National Award. News Chronicle- Cottesloe/Claremont; Clunies Ross National Science and Technology Medal, 1997.

Media Reference: Engineer Wins Science Award. The West Australian- Carmelo Amalfi- Clunies Ross Award, 1997.

Media Reference: Australia's Water link with Israel- Lake Kinneret. The Australian Jewish News- copy sent by Dr Tamar Zohary, 1997.

Media Reference: Jörg Imberger... a tour de force, Article by Bob Swinton. Water, 1997.

1996

Media Reference: Jörg Imberger Awarded the Stockholm Water Prize. Stockholm Water Prize, 1996.

Media Reference: Presenting Australian Ideas, Ingenuities, Discoveries and Inventions. ABC Broadcast: Innovations 587 Stockholm Water Prize, 1996.

Media Reference: Stockholm Water Prize: Restoring the Aquatic Environment. World Water and Environmental Engineering interview re Stockholm Water Prize, includes front cover pic. - Roger Maynard, 1996.

Media Reference: Prize to WA Researcher. Sunday Times Stockholm Water Prize, 1996.

Media Reference: Stockholm Water Prize. Swiss Press Cuttings- Assorted and Extensive Coverage of Stockholm Water Prize sent by Ann-Cha Englund of Stockholm Water Foundation, 1996.

Media Reference: 1996 Stockholm Water Prize Awarded to Dr Jörg Imberger, Australia. Media Release issued by Stockholm Water Foundation on UN World Day for Water Stockholm Water Prize, 1996.

Media Reference: WA's Green Fixer. Feature article in The West Australian's Earth 2000 supplement by Helena Spedding- Citizen of Year Award, 1996.

Media Reference: UWA Man Wins Award. Article in The West Australian, pg. 6 Stockholm Water Prize, 1996.

Media Reference: Scientist Wins Top Water Award. The Australian, p. 11 Stockholm Water Prize, 1996.

Media Reference: Australian Wins 1996 Stockholm Water Prize. Colour poster/cover - Stockholm Water Prize - Water Journal, 1996.

1995

Media Reference: UWA Expertise Wins Contracts. CEFD/CWR Article in Univation- publication of Australian Vice Chancellors Committee (AVCC), 1995.

Media Reference: News - Water Planning In Sarawak. Engineers Australia, pg. 24 : Sarawak Project, 1995.

Media Reference: Perth Water Expert Wins International Award: Jörg Imberger. Australasian Science Spring Issue Vol 16 No 3, 1995- Onanssis International Prize, 1995.

Media Reference: Bubbles Give New Life to Waters. Article re North Pine Dam/ Lake Burragorang, NSW in The West Australian, pg. 7 by Carmelo Amalfi, 1995.

No records before 1994

***Community Projects where I have had a major scientific input:***

1. Cottesloe Rock Pool
2. Marmion Lagoon Harbour
3. Esperance Harbour
4. Swan River Estuary Restoration
5. Blackwood River Estuary Restoration
6. Dawsville Cut
7. Rehabilitation of Rum Jungle Uranium Mining Pit.

***Research Funding Received 1972 to 2013*** I have personally been instrumental in bringing external grants and research contracts to UWA to the value of **\$197,397,000** from 1972 to 2013 (value given in 2013 dollars).

***Appendix 6: Funded Projects***

**Value: \$\$197,741,170 from 1972 to 2013: (value given in 2013 dollars)**

<b>Year</b>	<b>Project Title</b>	<b>Funding Agency</b>	<b>Amount K\$</b>
<b>2015</b>	Mass Flux Paths inLakes	Australian Research Council (Relinquished on retirement)	344
<b>2014</b>	Optimisation according to the Synergy/9 optimising methodology paper.	Synergy	4
	Understanding & managing the Lake Kinneret Plankton Garden	Israel Oceanographic & Limnological Research Ltd	125
	Distinguished Professor JI	UWA	225
	Swan River Research	Various	75
		Bectel	50
<b>2013</b>	Turbulent vertical mixing in stratified flows	Australian Research Council	330
	Water in a Changing Climate	Water Corporation	25
	Swan River Research	Various	80
	Lake Monger-Understanding of its functioning - PhD Scholarship (for 3 years)	Town of Cambridge	83
	Distinguished Professor JI	UWA	225
<b>2012</b>	PhD Scholarships	McCrae Investments	86
	Distinguished Professor JI	UWA	231
	Swan River Research	Various	69
	Hydrodynamic, Coastal Processes and Ecological Modelling Assessment of James Point Port Development	360 Environmental Consultants	908

<b>2011</b>	Feasibility Study for Improving the Ecological Health of the Three Lake System in the City of Melville - Booragoon Piney & Blue Gum	City of Melville	8
	Swan River Research	Various	108
	Distinguished Professor JI	UWA	235
<b>2010</b>	Kimberley Development Commission Lake Argyle	Kimberley Development Commission	43
	Water in a Changing Climate	Water Corporation	162
	Real-time System for St John of Gods Hospital	St John of God Hospital Subiaco	29
	Assessment of the Mass Flux in a Benthic Boundary Layer of a Stratified Lake	Australian Research Council	221
	Phase 2 of dredging for Fremantle Ports' inner harbour and channel deepening scope for model validation	Fremantle Ports Authority	32
	Lake Monger Online	Town of Cambridge	11
	Incorporating WESROC Councils into the Swan-Canning RMSO	City of Subiaco/WESROC	27
	Swan Canning River Basin Online	Various	79
	Distinguished Professor JI	UWA	242
<b>2009</b>	Distinguished Professor JI	UWA	222
	Water in a Changing Climate	Water Corporation	166
	Factors Controlling Phytoplankton Patchiness in a Seasonally Stratified Lake	ARC	68
	Hydronumerics Tokyo Bay, setting up ARMS	Hydronumerics Inc	44
	Shoalhaven Scheme Real-time Development	Sydney Catchment Authority	1,440
	Greenvale Reservoir ELCD Modelling	Melbourne Water	154
	Lake Como West Arm Restoration Phase 2- Implementation of Impeller System	Centro di Cultura Scientifica A Volta	1,088
	Assessment of destratification requirements for West Seti Hydropower Reservoir	SMEC	44
	Frieda River Hydro Lake Limnological Services	Xstrata Frieda River	218
	Capacity building in coastal hydrodynamic studies in Mozambique and Kenya for Fisheries management	Intergovernmental Oceanographic Commission of UNESCO	28
	Laboratory assessment of aluminium and phosphorous on primary productivity	Alcoa World Alumina Australia	69
	Barrier capacity of shallow ponds to microbial pollutant loading	Alcoa World Alumina Australia	20
	Upper Yarra Fire Response Modelling	Melbourne Water	47
	Swan Canning River Basin On-line	Various	73
	Setting up ARMS scenarios for Melbourne Water	Melbourne Water	107
	Googong Reservoir Mixer Modelling	CSIRO	13
	Lake Nagambie Modelling Study	Monash University	28
<b>2008</b>	Distinguished Professor JI	UWA	210
	Water in a Changing Climate	Water Corporation	68.25
	Clough Engineers Scholarship	Harold Clough	63

	Integration of bio-molecular and nutrient data to determine controls on algal bloom dynamics and water quality model validation	Swan River Trust	21
<b>2007</b>	Algal Blooms in Rio de la Plata Estuary	Agua y Saneamientos Argentinos S.A.	314.2
	Distinguished Professor JI	UWA	220.5
	Incorporation of multi-scale rainfall variability and climate change into flood risk analysis & catchment carbon export	ARC	
	Molecular detection of pathogens in a drinking water reservoir during inflow loading	UWA	18.2
	Self-learning capabilities for SCA	Sydney Catchment Authority	224.36
	Western Australia Water Scholarship	Water Corporations	124.03
<b>2006</b>	Distinguished Professor JI	UWA	212.78
	Vice Chancellors Discretionary - Travel Fund	UWA	28.67
	Tono Dam Real-Time Management System	JSPS	110.25
	Urban lake water balance model	EHA Pty Ltd	1.10
	Hydrodynamic and Water Quality Modelling of Pt Bonython, Spencer Gulf	BHP Billiton	88.20
	LDS Installation Leslie Harrison Dam	Redland Water and Waste	103.65
	Management of cyanobacteria in Googong Reservoir using destratification devices	ActewAGL	66.15
	Kelian Pit Stratification Study	Various	33.08
	Cockburn Sound Water Quality Modelling	WAWC	275.63
	Lake Erie Fish Eggs and Larvae Model	Michigan State University	50.72
	Marina Bay Reservoir Project	PUB	1,179.68
	Thomson Reservoir Turbidity Study	MW	396.90
	Inverse Methods	ARC	181.91
	Kranji Reservoir ARMS	PUB	281.14
<b>2005</b>	Distinguished Professor JI	UWA	214.99
	Vice Chancellors Discretionary - Travel Fund	UWA	28.67
	Bodensee Online support	IGKB/Ministry	110.25
	Lake Victoria - Pilot Study of Hydraulic Conditions	Kenya Agricultural Research Institute	1025.33
	Lake Bryde Catchment Model - Phase 1	CALM	121.28
	Harvey Dam Algal Management	Water Corporation	89.30
	Upper Yarra Reservoir Turbidity Study	MW	427.77
	Gledden Senior Visiting Fellowship 2004 (7 Visitors)	UWA	170.89
	Index of Sustainable Functionality	Unigreen	11.03
	Refurbish LBRI F-probe	LBRI	143.33
<b>2004</b>	Distinguished Professor JI	UWA	223.81

	Vice Chancellors Discretionary - Travel Fund	UWA	30.87
	Establishment of a sustainability Index for WA	Woodside	22.05
	Establishment of a sustainability Index for WA	BP	12.13
	Wivenhoe Dam Pollutant Load Study	SEQWC	2.21
	Mundaring Weir LDS Maintenance & Upgrade	WC	6.62
	Diagnostic System (LDS) And A Controlled Lagrangian Drogue (CLD).	ARC	486.20
<b>2003</b>	Distinguished Professor JI	UWA	209.48
	The response of phytoplankton to artificial destratification in a drinking water supply	(?????)	18.74
	Italian Water Research Institute Imberger Lake Pusiano Intensive Field Experiment.	ISRA	61.74
	Internal Wave Energetics, Mixing And Transport In Lakes	ARC	650.48
	Transport, Mixing And Hydrobiology of Salt Wedge Estuaries	ARC	-
	Silvan Reservoir Monitoring and Modelling Study	MW	418.95
	Measurement of the spatial distribution of temperature and velocity in lakes using Acoustic Tomography	ARC	297.68
	ELCOM Modelling of the Venice Lagoon	CVN	206.17
	The response of phytoplankton to artificial destratification in a drinking water supply	SCA	13.23
	Biological Field Experiment in Lake Pusiano	CNR	62.84
	Bushfire response modelling of Bendora Reservoir	ActewAGL	99.23
	Peace River Reservoir	Various	19.85

<b>2002</b>	Distinguished Professor JI	UWA	223.81
	Control of Lake Burragorang New	SCA	2,497.49
	Brownlee Reservoir hydrodynamic study	Idaho Power Company	392.49
	Water Symposium and Art Exhibition: Pratt Foundation	The Pratt Foundation	63.95
	Mundaring water quality modelling	WC	54.02
	Kelian equatorial mining void	Bechtel Service	35.28
	North Pine modelling studies	SEQWB	49.61
	Shark Bay Salt - joint venture	Shark Bay Salt	26.46
	Mundaring Weir - Inflow study	WC	40.79
	Cienaga de El Totumo	Ordonez Pty	28.67
	Nanyang Tech Uni - Water in Singapore	PUB	51.82
<b>2001</b>	Distinguished Professor JI	UWA	223.81
	Gledden Visiting S/Fellow - J. Melack	(???)	38.59
	Internal Wave Energetics, Mixing and Transport in Enclosed Basins.	ARC	173.09
	Barbamarco Lagoon	CDBDPA	252.47
	Water Symposium: University Strategic Fund	UWA	89.30
	Pinjarra Residue Ponds	ALCOA	103.64
	San Roque Reservoir	DIPAS	504.95
	Internal Wave Study at Lake Constance	DFG	197.35
	Marine Science & Engineering Program	UWA	773.96
	Lake Kinneret (Stage 2)	Water Commission	379.26
<b>2000</b>	Distinguished Professor JI	UWA	234.83



	Lake Kinneret (Stage 1)	Water Commissioner	1,759.59
	Transport & Fate of solutes	ARC	625.12
	Gledden Senior F/ship- Nik Kotsovinos	UWA	27.56
	Research programme in to W.A. Salt Lake Biota	ARC	196.25
	Environmental Series	UWA	93.71

<b>1999</b>	Centre for Environmental Fluid Dynamics	ARC	1,973.48
	Reservoir Dynamics	WAWA	452.03
	Distinguished Professor JI	UWA	234.83
	Measurement Of Fluxes Through The Entrances To The Venice Lagoon	CVN	165.38
	Gledden Senior F/Ship- Nik Kotsovinos	UWA	66.15
	Drainage Shadow - Coondewanna Flats	Various	55.13
	Marine Science & Engineering Program	UWA	595.35
	Internal Wave Study At Lake Constance, Germany	DFG	152.15
	Modelling Of Geomorphological Changes in the Tone Estuaries	PWRI	93.71
	Distinguished Professor JI	UWA	259.09
	Water Corporation Scholarship	WAWA	275.63
	Optimisation Of Salt Production In Shark Bay Solar Salt Fields	Shark Bay Resources	384.77
	Workshop on Ecology and Wetland Engineering	DITAC	18.74
	Lake Constance	Regional Gov	23.15
<b>1998</b>	Centre for Environmental Fluid Dynamics	ARC	2,403.45
	Integral Study For The Environmental	Petroleos de Venezuela	636.14

	Remediation Of Lake Maracaibo		
	Energy Transfer In A Stratified Lake	ARC	421.16
	Water Quality Management Systems	(?????)	-
	Derby Tidal Power (Consultancy)	Derby Tidal Power	18.74
	Lake Burrangorang - Contamination Incident	SCA	173.09
	Sydney Storage Tunnel (Stage 1)	SCA	173.09
	Distinguished Professor JI	UWA	259.09
	Venice Lagoon Flux Measurement	Consorzio Venezia Nuova	125.69

<b>1997</b>	Centre for Environmental Fluid Dynamics	ARC	2,149.88
	Public Lecture Series on the Environment (Relates to a/c 173481)	UWA	36.38
	University Postdoctoral Research Fellowship - Dr Jose R Romero	UWA	217.19
	Wetstar - S/Ware Project Sarawak		155.45
	Evaluation of Restoration Measures in Lake Pamvotis	Alexander S Onassis Public Benefit Foundation	653.78
	Commercialisation of the Services of the Centre for Water Research VC Component Only	UWA	181.91
	Bubble Plume Techniques in the Swan- Canning Estuary	WRC	65.05
	Collie River Irrigation	WRC	44.1
<b>1996</b>	Centre for Environmental Fluid Dynamics	ARC	2,403.45
	Bubble Plume Techniques In The Swan- Canning Estuary	(????)	33.08
	Nam Theun Water Quality Predictions	Nam Theun 2 Electricity Consortium	693.47

<b>1995</b>	Centre for Environmental Fluid Dynamics	ARC	2,403.45
	North Pine Dam Destratification	SEQWB	165.38
	Lake Rinihue - a comparison of methodologies	FONDECYT	441
	Lake Burragorang Limnology Study	SW	1,252.44
	Sarawak Management Plan	Sarawak Resources Management Council	379.26
	Environmental Impact Assessment Of Bakun Hydroelectric Dam.	UNIMAS	940.11
	Mixing Induced by Turbulent Benthic Boundary Layers	ARC	416.75
<b>1994</b>	Reservoir Dynamics	WAWA	341.78
	Centre for Environmental Fluid Dynamics	ARC	2,535.75
	Purge Flow Of Saline	Senegos	33.08
	Teaching with Computers	DETYA	242.55
	Review of Environmental Design Criteria for the Wansea Field	Woodside	52.92
<b>1993</b>	Pine Creek Catchment Limnology	???	55.13
	Kingscliff Lake Limnology	???	44.1
	A Laboratory For Computer-Aided, Problem Based Learning.	UWA	485.10
	Sarawak Water Resources Management Plan	MG	264.60
	Perth Coastal Waters Study	WAWA	1,323
	Centre for Environmental Fluid Dynamics	ARC	2,800.35
	Centre For Limnological Modelling	WASG	303.19
	Entrainment Into A Saline Underflow In Lake Ogawara (Japan).	JSPS	165.38
	Commercialisation Of The Water Quality	Flygt	33.08

	Control Systems		
	Rotterdam Waterway	Delft Hyd	72.77
	Beenyup Ocean Outfall	WAWA	176.40
	Eglington Breakwater - Basin Modelling	FPA	66.15
	Valdivia Estuary Field Investigation	SERGOS	132.30
	Camazzole Lake	Consorzio Di Bonifica Delta Po Adige	70.56
	Lan Tarn Reservoir	Sinclair Knight Merz	39.69
	Composite 3D Numerical Modelling	ARC	350.60
	Hydrodynamic Forces of Offshore Structures	ARC	211.68
<b>1992</b>	Centre for Environmental Fluid Dynamics	ARC	2,800.35
	Reservoir Dynamics	WAWA	308.70
	Water Quality Through Lake Number	SWB	44.1
	The Acoustic Doppler Current Meter	Various	198.45
	Trunkline Remedial Stabilisation Project	Woodside	66.15
	Water Quality Measuring Systems	IRISDOO	82.69
	Upper Yarra River Reservoir Outlet: Assessment Of Water Quality Implications	MMBW	71.66
	Quad Axis Doppler Current Meter	ARC	121.28
	BITEX 93+ Lake Biwa F Probe	LBRI	14,307.14
	Environmental Engineering Coursework Development	UWA	760.73
	Eglington Breakwater Design	Kinhill Riede	35.28
	Beenyup Outfall Oceanographic Survey	WAWA	29.77
	Pipeline Sour Modelling	Woodside	242.55
<b>1991</b>	Centre For Limnological Modelling	WASG	385.88

	Centre for Environmental Fluid Dynamics	ARC	2,756.25
	Reservoir Dynamics	WAWA	341.78
	Nepean Reservoir Destratification	SW	71.66
	Chaffey Dam Enlargement Project	NSWDWR	165.38
	Darwin Water Supply Study	NTWA	132.30
	Instrument Calibration Facility	WAWA	61.74
	Development Of Long Term Water Quality Control Strategy	SW	66.15
	CEFD UWA Support 1991	UWA	490.61
	Water Quality and Control Strategies	MMBW	63.95
	Upper Yarra Reservoir Outlet: Assessment Of Water Quality Implications	MMBW	41.90
<b>1990</b>	Reservoir Dynamics	WAWA	341.78
	Centre for Environmental Fluid Dynamics	ARC	2,866.50
	Centre For Limnological Modelling	WASG	396.90
	Development Of Water Quality Strategies	IPROS	55.13
	Dynamics Of The Venice Lagoon	CVN	183.02
	Fine-Scale Profiler Development	MMBW	386.98
	Research Fellowship-Rotating & Stratified Fluids: J Taylor	ARC	260.19
	Nepean Reservoir Destratification Design	SW	558.97
	Gledden Visiting Fellowship - W. Debler	UWA	44.10
	Water Quality Control Strategies	SWB	90.41
	Worsley Solar Evaporation Ponds	Worsley	103.64
	Hydrodynamic Forces on Pipelines	ARC	541.33

	Laboratory Testing of Precipitation Tanks	Worsley	98.12
	Microstructure Profilers Construction	UCSB	29.77
	F Probe Construction	MMBW	59.54

<b>1989</b>	Centre For Limnological Modelling	WASG	405.72
	Centre for Environmental Fluid Dynamics	ARC	3,523.48
	Reservoir Dynamics	WAWA	341.78
	Water Quality Control System	SW	55.13
	Dispersal Of Pollutants In The Lagoon Of Venice	ENEL	82.69
	Supercomputer - Equipment Grant	UWA	515.97
	Scour around offshore platform legs	WHOLAHAN & GRILL	129
	Numerical Modelling Of Tropical Cyclones	Woodside	412.34
	Acoustic Current Meter Development	WAWA AWRAC	363.83
	Glennies Creek Reservoir Destratification Project	NSWDWR	129
	Harding Dam Destratification, Stage 2	UWRF	154.35
	Process Based Water Quality Models	AWRAC	198.45
<b>1988</b>	Centre for Environmental Fluid Dynamics	ARC	3,421.06
	Pinjarra Cooling Pond Study	ALCO	77.18
	Centre For Limnological Modelling	WASG	426.67
	Extreme Flood Estimation In South-West Western Australia	AWRAC	496.13
	Numerical Modelling Of Tropical Cyclones	ARC	854.44
	Acoustic Doppler Sensing Equipment	WAWA	997.76

		AWRAC	
	Wave Generator	WADMH	496.13
	Hydrodynamic Forces On Offshore Pipelines	ARC	286.65
<b>1987</b>	Centre for Environmental Fluid Dynamics	ARC	3,595.25
	Reservoir Dynamics	WAWA	452.03
	Mixing In Density Stratified Flows (Program Grant)	ARC	2,996.60

<b>1986</b>	Centre for Environmental Fluid Dynamics	ARC	3,465.16
	Reservoir Dynamics Water Quality And Small Boat Harbours, Hillarys Marina	WADMH	378.16
	Reservoir Dynamics	WAWA	457.54
<b>1985</b>	Reservoir Dynamics	WAWA	463.05
	Centre for Environmental Fluid Dynamics	ARC	3,642.66
	Groundwater Seepage Into Coastal Seas	ALCOA	198.45
	Effects Of Vertical Stratification On Primary Production And Biogeochemical Fluxes In Estuaries	AMSTAC	512.66
	Solar Ponds Design And Development	NERDDP	728.75
<b>1984</b>	Unsteady Selective Withdrawal	ARC	626.22
	Aspects Of Physical Oceanography Of The North West Shelf: Stage 2	AMSTAC	527
	Centre for Environmental Fluid Dynamics	ARC	3,481.70
	Reservoir Dynamics	WAWA	463.05
<b>1983</b>	Centre for Environmental Fluid Dynamics	ARC	3,660.30
	Reservoir Dynamics	ARC	439.80
<b>1982</b>	Centre for Environmental Fluid Dynamics	ARC	3,847.73
	Bunbury Power Station Outfall Design	SEC	3,847.73

	Reef Diffusion Research	AIMS	114.66
	Circulation In The Peel-Harvey System	PWD	181.91
	Development Of A Remote Data Logger	PWD	230.42
	Solar Ponds	SERIWA	460.85
	Reservoir Dynamics	WAWA	460.85
	Recreational Use Of Reservoirs	WAWA	292.16

<b>1981</b>	Reservoir Dynamics	PWD	41895
	Scour Around Offshore Platform Legs; A Laboratory Investigation	Woodside	1,212.75
	Centre for Environmental Fluid Dynamics	ARC	4,045.07
	Response Of Evaporation Basins To Solar Energy Input	Shark Bay Salt	1,010.99
	Flushing In Yunderup Canal Estate	Sunland	809.24
	Dynamic Response Of The Coastal Waters Of The North West Shelf	AMSTAC	485.10
	Stretch, Shelf Thermocline Response To Tropical Cyclones (Hurricanes)	Woodside	253.58
	Shark Bay Dynamics	UWA	363.83
	Dynamics Of A Reservoir	UWA	242.55
<b>1980</b>	Reservoir Dynamics	PWD	446.51
	Dynamic Response Of North-West Shelf Waters	Woodside	1,275.59
	Influence Of Water Circulation Within Western Australian Limestone Reefs On Rock Lobsters And Their Habitat	RB	716.63
	Management Of Water Quality In Multiple Use Reservoirs,	AWRC	765.14
<b>1979</b>	Reservoir Dynamics	PWD	446.51



	Natural And Forced Convection In Long Reservoir Triangular Basins,	ARC	670.32
	Development Of A Hydraulics Teaching Laboratory	UWA	535.82
<b>1978</b>	Reservoir Dynamics	PWD	469.67
	Dynamics Of A River Flowing Into A Reservoir	ARC	469.67
	Spatial And Temporal Variability In Oregon Estuaries	US EPA	1,174.16
<b>1977</b>	Performance Of Submarine Outfalls	WFDA	220.50
	Reservoir Management Studies	CWRC	155.45
<b>1976</b>	Reservoir Management Studies	PWD	227.11
<b>1974</b>	Selective Withdrawal From A Stratified Reservoir	ARC	691.27
	Study Of Gravity Currents	ARC	385.88
	Problems In Geophysics	ARC	1,033.04
	The Management Of Water Quality In Reservoirs	AWRC	317.52
	Dispersion In The Harvey Estuary	NE	165.38
	Salinity Build-Up In The Avon River Lakes System	????	275.63
<b>1972</b>	Environmental Study Of The Blackwood River Estuary	EPA	551.25
	<b>Grand Total in 2013 \$K</b>		<b>\$197,741.17</b>