

Curriculum Vitae

Professor Charles Lemckert

Head of Discipline - Built Environment and Design, Faculty of Arts and Design

Fellow of Institute of Engineers Australia (FIEAust)

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PERSONAL DETAILS

Nationality: Australian

EDUCATION

- 1993 Doctor of Philosophy, Department of Environmental Engineering, University of Western Australia
1990 Master of Science (by Research), Marine Studies Centre, Department of Geology and Geophysics, University of Sydney
1985 Bachelor of Science with Honours, University of Sydney

SUMMARISED EMPLOYMENT HISTORY

- 2017- Head of Discipline - Built Environment and Design and Professor of Building and Construction Management, Faculty of Arts and Design, University of Canberra
2014-2017 Head of Discipline - Civil Engineering and Professor (Water and Coastal Engineering), Griffith School of Engineering, Griffith University-Gold Coast Campus
2006-2013 Associate Professor, Griffith School of Engineering, Griffith University-Gold Coast Campus (Deputy Head of School: 2008-2012)
1999-2005 Senior Lecturer, School of Engineering, Griffith University-Gold Coast Campus
1997-1998 Lecturer, School of Engineering, Griffith University-Gold Coast Campus
1995-1997 Lecturer, School of Engineering and Technology, Deakin University
1994-1995 Associate Lecturer, School of Engineering and Technology, Deakin University
1993-1994 Research Associate, Centre for Water Research, University of Western Australia
1992-1993 Research Officer, Centre for Water Research, University of Western Australia
1988-1992 Tutor/demonstrator (part time), Department of Civil Engineering, University of Western Australia
1987-1988 Research assistant (part time), Department of Geology and Geophysics, Sydney University

PROFESSIONAL AFFILIATIONS

Asia Oceania Geosciences Society – *President, Ocean Sciences Section (2016-)*
Australian Association for Engineering Education – *Including Elected Committee Member (2013-)*
Australian Water Association – *Including Elected Committee Member of the Water Education Network (2010-)*
Coastal and Estuarine Research Federation – *Including Life member and Member of the Board of Trustees*
Engineers Australia – *Fellow of Institute of Engineers Australia (FIEAust)*
Australian Collaborative Education Network
Australian Marine Science Association
Australian Meteorological and Oceanographic Society
American Geophysical Union
International Association of Online Engineering
International Water Association

EDITORIAL BOARD MEMBER

Journal of Coastal Research
Encyclopaedia of Coastal Science
Journal of Southern Hemisphere Earth Systems Science (*Australian Meteorological and Oceanographic Journal*)

INVITED ADJUNCT PROFESSOR APPOINTMENT

University of Southern Queensland
Griffith University

AREAS OF RESEARCH EXPERTISE

Environmental fluid dynamics, science and engineering education, water engineering

OUTCOMES AND PRODUCTS OF RESEARCH

Prizes and Awards

- 2016 Finalist, Australian Water Association - Queensland Branch, Research Innovation Award 2016/17, for the project entitled “Remote and Regional Water Security” (Team Member)
- 2012 Finalist, Vice Chancellor’s Research Excellence Award for Team/Group, for the Evaporation Study Project (Team Leader)
- 2011 Science, Environment, Engineering and Technology Group Pro Vice Chancellor’s Research Excellence Award for Team/Group, for the Evaporation Study Project (Team Leader)
- 2011 Finalist in the 2011 Healthy Waterways Research Awards, WaterSecure - Research Award Category for group project entitled “Modelling of purified recycled water inputs to Lake Wivenhoe” (A/Prof Lemckert – team member and leader of field studies component)
- 2008 Dean Learning and Teaching Quality Teaching Citation – Coastal Systems, 2007
- 2006 Dean’s Certificate of Commendation – Faculty of Engineering and Information Technology – for Promoting Innovative and Distinctive Approaches to Student Learning (for *the ministerial brief – a tool for coastal zone management education*)
- 2005 Team Award – Fitzroy River Contaminants – CRC for Coastal Zone, Estuary and Waterway Management
- 2004 Team Award (CRC Coastal Shield for the project team that showed the best overall contribution to all of the categories: Innovation, excellence in science, stakeholder needs, teamwork, collaboration and synergy) – Fitzroy River Contaminants – CRC for Coastal Zone, Estuary and Waterway Management
- 2000 Team Award – Bremer River Project – CRC for Coastal Zone, Estuary and Waterway Management
- 1997 Faculty of Engineering, Griffith University – Runner-up – Teaching and Learning Workshop Contribution
- 1994 Karl Emil Hilgard Hydraulic Prize, American Society of Civil Engineers, Hydraulics Division, for the paper – Lemckert, C. J. and J. Imberger (1993) Energetic bubble plumes in arbitrary stratification, J. Hydraulic Engineering, 119 (6), 680-703. This is a yearly prize that is given to the authors of a paper in the Journal of Hydraulic Engineering-ASCE which is judged to be of superior merit, dealing with the problem of flowing water, either in theory or practice. The value of the paper is judged both on the basis of the Course matter and the method of presentation.
- 1992 PhD thesis nominated for the Straub Prize awarded by the St Anthony Falls Hydraulics Laboratory, Department of Civil Engineering, University of Minnesota, Minneapolis, Minnesota, U.S.A.
- 1991 Convocation Postgraduate Research Travel Award – University of Western Australia
- 1988-1993 University Research Studentship – University of Western Australia
- 1988-1993 Centre for Water Research Supplementary Scholarship, University of Western Australia
- 1986 Research Studentship – Department of Geology and Geophysics, University of Sydney
- 1985 Vacation Scholarship – CSIRO Division of Oceanography, Hobart, Tasmania

Successful Competitive External Grant Applications

- 2017 **ARC Linkage – Infrastructure and Experimental Facility Scheme**, Coastal Engineering Research Field Station (CERFS), \$600,000, Tomlinson, Baldock (UQ), Power (UNewcastle), Jeng, Lemckert, Nielsen (UQ), Etemad-Shahidi, Cartwright, Callaghan (UQ), McRae (Gold Coast Waterways Authority)
- 2016-2019 **ARC Linkage – Project**, Assessing risk of oligomictic conditions in sub-tropical water supply lakes, LP160100842, \$200,815, Gibbes, Lemckert, Grinham and Boehrer
- 2016-2019 **ARC Linkage – Project**, Data-driven water quality treatment management decision support system, LP160100217, \$248,000, Stewart, Zhang, Lemckert, van Leeuwen, Babovic and O’Halloran
- 2015-2016 **CNPq Post-Doctoral Project Funding - Round 3**, Studies on evaporation reduction technologies for farm dams and impacts of climate change on water availability for irrigated and rain-fed agriculture, Grant Number: 203576/2014-4, AUD 36,000, Helfer (recipient) and Lemckert (supervisor)
- 2012-2015 **Australian Water Recycling Centre of Excellence**, Validation of maturation ponds in order to enhance safe and economical water recycling, \$600,000 from Centre \$188k Industry and \$779k in-kind, Stratton, Lemckert, Roiko (SCU), Zhang, Wilson (CQU), Gibb (CDU), Keegan (SA Water), van der Akker (SA Water) and Macdonald (SCU)
- 2012-2016 **Queensland Government Science Funding Support** (formerly known as Queensland Smart Futures Fund, Research Partnerships Program 2011/2012), Regional and Remote Water Security, \$1M QLD Government and \$1.09M Industry (and cash as salaries) and \$3M in-kind, Stratton, Roiko (SCU), Wilson (CQU) and Lemckert

- 2009 **ARC Linkage – Projects Round 2**, Assessing Oceanic and Tidal Forecast Data For Search and Rescue Purposes, LP0991159, \$90,000, Lemckert
- 2007 **ARC Linkage – Projects Round 2**, Sources of phosphorus promoting cyanobacteria in subtropical reservoirs, LP0776375, \$120,000, Burford, O'Brien (UQ), Hamilton (NZ) and Lemckert
- 2005 **ARC Linkage – Projects Round 2**, Freshing, mixing and purging of riverine saline ponds by freshwater overflow – LP0562390, \$132,000, Armfield (USyd), Kirkpatrick (UTas) and Lemckert
- 2005 **Access to the FZK-Facility “Large Wave Channel (GWK)” in Hannover within the EU 6th Framework Programme, (EU – supported Transnational Access to Major Research Infrastructures)**, ESDODDS: Experiments on Sediment Depth of Disturbance for beaches under the influence of Drainage Systems, Ciavola (Italy), Vicinanza (Italy), Malvarez (Spain), Lemckert
- 2004 **ARC Linkage – Infrastructure and Experimental Facility Scheme**, Hydrodynamics and water quality field research facility, LE0560828, \$363,288 from ARC (\$350,000 + from Institutions), Parnell (JCU), Heron (JCU), Lemckert (GU), Ridd (JCU), Stieglitz (JCU), Smithers (JCU), Wust (JCU) and Tao (GU)
- 2003 **ARC Linkage – Projects Round 2**, Design Rationale for Gated Canal Estates, LP0348523, \$69,100 (over 3 years), Lemckert and King (Asia-Pacific ASA Pty Ltd)
- 2003 **ARC Linkage – Projects Round 2**, Flow generated by ducted surface pumps: buoyant jets at high Reynolds numbers and low Froude numbers, LP0349024, \$69,100 (over 3 years), Kirke, Lemckert and Tao with WEARS Ltd
- 2002 **ARC Linkage – Infrastructure and Experimental Facility Scheme**, State of the Art Particle Size Analysers, \$139,000 from ARC, Litster (UQ), Rudolph (UQ), Lemckert, He (UQ), Howes (UQ), Lant (UQ) and Reid (UQ)
- 1999 **ARC SPIRT – (Strategic Partnerships with Industry – Research and Training)**, Engineering Guidelines for Designing Hydraulic Lock Structures to Minimise Water Quality Impacts, \$61,768 (3 years), Lemckert (with Dr Brian King, Making Investments Pty Ltd)
- 1997 **ARC – Large Grant**, Negatively Buoyant Vertical Jets Striking a Surface, \$120,000 (3 years), Lemckert and Armfield
- 1997 **CUTSD (Committee for University Teaching and Staff Development)**, Remote access/operation of computer controlled manufacturing facilities for engineering students, \$50,802, Ferguson, Lemckert and Baliga
- 1996 **CAUT (Commission for the Advancement of University Teaching)** Grant, Remotely Operated Laboratory Experiments In Engineering for Distance Education Students, \$50,000, Lemckert and Martin
- 1996 **Dept. of Industry, Science and Technology, Bilateral Collaboration Program**, Determining the effect of mixing on water quality, \$18,000, Lemckert and Imberger (Australia), T Berman (Israel)
- 1996 **Apple University Development Fund (AUDF)**, Development of Laboratory Experiments In Engineering for Distance Education Students, \$10,000, Lemckert
- 1995 **ARC Large Grant**, Determination and prediction of mixing induced by turbulent benthic boundary layers, \$134,000 (3 years), Lemckert and Imberger

Other Successful External Research Grant Funding

- 2016-2021 Confidential Donor, The benefits of ecosystem-based approaches for climate change in Least Developed Countries, \$2.5M, Mackey, Lemckert, Tomlinson, Stewart, Becken, Fleming, Smart
- 2015-2018 Department of Agriculture and Fisheries, The Hammerhead Sharks (Sphyrnidae) of Southeastern Queensland: Nursery grounds, movement and interactions with the Queensland Shark Control Program (QSCP), \$30,000, Lemckert
- 2014-2016 CRC Polymers, Evaporation Reduction using Polymer Layers, \$320,000, Lemckert
- 2012-2014 CRC Polymers, Evaluation of Evaporation Reduction using Polymer Layers, \$120,000, Lemckert
- 2012-2014 DEEWR University Project, \$220,000, Team Member
- 2011 CRC Polymers, Laboratory Evaluation of Evaporation Reduction using Polymer Layers, \$23,065, Lemckert
- 2011 Department of Environment and Resources Management, Storm Tide Inundation Modelling and Mapping Guideline, \$98,923, Lemckert and Zhang
- 2010 South East Queensland Water (SEQW), Hydrodynamic Study of Hinze Dam for Calibration of a Hydrodynamic Model, \$188,000, Lemckert
- 2010 South East Queensland Water (SEQW), Specialist equipment for the study of reservoir dynamics for the validation and calibration of hydrodynamic models, \$150,000 (+\$150,000 from Griffith University – DRC(R), CIEM, SEET), Lemckert

- 2009 South East Queensland Water (SEQW), Wivenhoe Reservoir Data Collection, Processing and Reporting Activity – 2009, \$45,000, Lemckert
- 2009 South East Queensland Water (SEQW), Summer-Autumn ADCP Deployment for Calibration of Wivenhoe Reservoir hydrodynamic model, \$30,000, Lemckert
- 2009-2012 Urban Water Research Security Alliance – Water Loss Study – Evaporation Reduction, ~ \$600,000, Lemckert and Zhang
- 2008-2009 South East Queensland Water (SEQW), Internal Wave Activity Study for Calibration of Wivenhoe Reservoir hydrodynamic model, \$45,400, Lemckert
- 2008-2009 South East Queensland Water (SEQW), Summer ADCP Deployment for Calibration of Wivenhoe Reservoir hydrodynamic model, \$21,650, Lemckert
- 2008-2009 South East Queensland Water (SEQW), Splyard Creek Study for Calibration of Wivenhoe Reservoir hydrodynamic model, \$35,800, Lemckert
- 2008 South East Queensland Water (SEQW), Calibration for hydrodynamic model/P budget, \$14,800, Burford and Lemckert
- 2007-2008 Department of Natural Resources and Water, Torres Strait Tide Gauge Survey, \$414,000, Lemckert
- 2004-2006 CRC for Coastal Zone, Estuary and Waterway Management, AC, \$20,000, Lemckert
- 2004-2006 CRC for Coastal Zone, Estuary and Waterway Management, UWA, \$49,000, Lemckert and Dale
- 2001-2004 CRC for Coastal Zone, Estuary and Waterway Management, Riverine Turbidity Processes Task 2 (RT2), \$260,000, Lemckert, Howes (UQ), Webster (CSIRO) and Ford (CSIRO)
- 2006 Griffith University Encouragement Grant Scheme, Increasing water recycling opportunities and sustainability with a validated treatment pond model incorporating disinfection efficacy, Lemckert and Stratton, \$10,000 (GU) + \$10,000 (\$5,000 cash + \$5,000 in-kind) from Industry Partners, Stratton and Lemckert
- 2004 Griffith University Industry Collaboration Scheme, Developing Guidelines for the Determination of Residence Time and Disinfection Efficacy of Effluent Lagoons – Opportunities for Water Recycling, \$10,000 (GU) + \$15,000 from Industry Partners, Stratton and Lemckert

Successful Internal Competitive Grant Applications

- 2016-2017 Griffith School of Engineering Research Grant – Enhancing desalination energy efficiency with the salinity gradient energy from residual water streams, \$10,000, Hossain, Helfer, Etemad-Shahidi, Yu, Simpson, Lemckert, Sahin, and Millar, Darestani and Altaee (QUT) and Straub (Yale University)
- 2015-2016 Griffith University - University Of Southern Denmark Collaborative Travel Grants Scheme, A coupled physical-biogeochemical model of a western boundary current system upwelling region: The Fraser Coast – An Australian Case Study, \$9,893, Lemckert, Canfield (USD) and Ribbe (GU Adjunct)
- 2014-2015 Griffith University & Peking University Collaboration Research Scheme, Wastewater reuse in Australia and China, \$8,000, Li (GU), Yang (PU), Lemckert, Zhang (PU)
- 2014-2015 Griffith School of Engineering Research Grant – Engineering the Bright Carbon Nanodots for Solving the Grand Challenges in Water Research, \$20,000, Woodfield, Qin, Lemckert, Zhang, Yu, Etemad Shahidi
- 2014 Griffith University Research Infrastructure Program (GURIP), Terrestrial Laser Scanner Hardware and Software for High Resolution Surveying, \$60,000 (\$93,000 from all contributors), Brooks, Lemckert, Tomlinson, Stewart, Olley
- 2013 Griffith Grants for Learning and Teaching scheme, Group Level, Summer Research Fellowship in SEET – A sustainable model for undergraduate research and a pipeline for future Honours and HDR students, Chang, Quinn, Kielpinski, Stantic, Streed, Tonissen and Lemckert
- 2013 Griffith University Research Infrastructure Program (GURIP), High definition near-real-time bathymetry and offshore profiling system (BeBOP), \$50,000 (\$80,000 in total from all contributors), Tomlinson, Strauss, Lemckert, Cartwright and Etemad-Shahidi
- 2012 Centre for Infrastructure Engineering & Management, Seed Funding, Improving geo-hazard assessment using photo-grammetry and numerical modelling techniques, \$7,500, Gratchev, Qin, Lemckert and Blasubramaniam
- 2012 Griffith University Research Infrastructure Program (GURIP), Facilities for Physical Studies and International Standard Calibration Activities, \$40,000 (\$80,000 in total from all contributors), Lemckert, Woodfield, Zhang, Etemad-Shahidi, and Hall
- 2012 Griffith University Research Infrastructure Program (GURIP), Coastal Dynamics Mobile Monitoring (CDMM) package, \$70,000 (\$98,000 in total from all contributors), Kobashi, Meynecke, Tomlinson, Lemckert and Pitt

- 2010 Putting the "Principles" to work in SEET: Developing capability and practice for teaching excellence using peer review, Dr Steve Drew, School of Information and Communication Technology, Dr Duncan Nulty, GIHE; Dr Sven Venema, Associate Professor Michael Blumenstein, School of Information and Communication Technology; Dr Ann McDonnell, Associate Professor Dianne Watters, School of Biomolecular and Physical Sciences; Associate Professor Hong Guan, Associate Professor Charles Lemckert, Dr Rodney Stewart, Griffith School of Engineering; Dr Michael Howes, Dr Jo-Anne Ferreira, Griffith School of Environment
- 2009 Griffith Grants for Learning and Teaching – Level 4, A new approach to identifying and assisting ‘at risk’ students, \$5,000, Bolton and Lemckert
- 2009 Griffith Grants for Learning and Teaching – Level 4, Development of a framework and associated manual to formalise the research-based learning experience of PhD candidates undertaking Work Integrated Research Higher Degree (WIRHD) projects within the Griffith School of Engineering, \$9,300, Stewart, Chen, Zhang, Lemckert, Mohamed
- 2008 Griffith University Research Infrastructure Program, Turbulence profiling instrument – a unique Australian ocean water studies facility, \$55,000, Lemckert and Zhang
- 2008 Griffith Grant For Learning And Teaching, Assessment and Generic Skills in Engineering Curricula at Griffith, \$17,210, Yu, Patrick, Lemckert and O’Keefe
- 2007 Griffith University Research Infrastructure Program, Coastal Research Vessel, \$70,000, Pitt, Lemckert, Bunn, Burford, Cartwright, Connolly, Lee, Tao, Teasdale, Warnken and Zhang
- 2007 Griffith Grant For Learning and Teaching, Problem/Project-Based Learning in Griffith Engineering, \$5,000, Patrick, Stewart, Lemckert, Bromwich, Guo, Williams and James
- 2007 Griffith University Research Grant Scheme, Dynamics of wave and current induced turbulent mixing in near coastal shelf waters, \$8,500, Zhang and Lemckert
- 2004 Griffith University Research Infrastructure Program, Microbial Ecology Laboratory and Field Equipment for Studying Engineered and Natural systems, \$31,000, Stratton and Lemckert
- 2003 Griffith University Teaching Grant, Development and implementation of an electronic step-by-step guidebook for international students undertaking coursework dissertation projects, \$4,000, Stewart, Lemckert and Buckridge
- 2003 Griffith University Infrastructure Program Grant, A suite of apparatus for measuring, collecting and manipulating sediment material, \$169,249, Lemckert, Teasdale and Tao
- 2003 Griffith University Infrastructure Program Grant, Hydrodynamic experimental analysis package of floating offshore structures, \$134,000, Tao, Jeng, ad Lemckert
- 2002 Griffith University Infrastructure Grant, Facilities for wave survey system, \$100,000, Jeng, Lemckert and Tao
- 2002 Griffith University Strategic Improvements in Research Training Scheme, Instrumentation for Research Purposes – A Resource Package, \$12,591, Lemckert
- 2001 Griffith University Quality Enhancement Grants in 2001, Student Attribute Profiles Compared to Employer Requirements, \$18,879, Lemckert
- 2001 Griffith University Research Development Grant, Measurement and analysis of turbulent mixing events within stratified fluids, \$14,000, Lemckert
- 2000 Griffith University Strategic Improvement Project– 2000, Teaching and Learning Improving Student Dissertation Skills, \$37,429, Edwards and Lemckert
- 2000 Griffith University Research Grant, Bubble Size Distribution Below Breaking Waves, \$19,546, Lemckert (Part of a joint International project with NIWA, N.Z.)
- 2000 Griffith University – Research Infrastructure Grant, Wave-Seabed-Structure Interaction Modelling System, \$105,000, Jeng, Lemckert, Nataamadja and Guan
- 2000 Griffith University Quality Excellence Grants, Coastal Industrial Affiliates Program, \$12,999, Lemckert
- 2000 Griffith University Teaching Development Grant, Internet Mediated Laboratory Experiments – An Adjunct in Inter-Campus Education, \$16,099, Lemckert, Gonzalez and Lee
- 1999 Small Australian Research Council Grant for Initial Support, Behaviour of Sediment-Laden Flows with Reversing Buoyancy on an Incline, \$15,963, Lemckert
- 1999 Griffith University Research Grant, Transport of Sediment Particles and Animal Larval Stages in Estuarine Mangrove Environments, \$18,000, Lee and Lemckert
- 1999 Griffith University – Research Infrastructure Grant, In-situ Sediment Transport Measuring System, \$106,000, Lemckert
- 1998 Griffith University – Research Infrastructure Grant, Research Facility for Near-Coastal, Estuarine and Inland Water Body Studies, \$102,033, Lemckert

- 1998 Small Australian Research Council Grant for Initial Support. (Small ARC) Beach Behaviour Under the Influence of Beach Dewatering and Three Dimensional Waves, \$20,000, Lemckert
- 1998 Griffith University – National Competitive Grant Support Scheme, Reversing Buoyancy Turbidity Currents on a Slope, \$14,000, Lemckert
- 1998 Griffith University – Community Service Projects 1998, Beaches – A User Friendly Guide, \$8,500, Lemckert
- 1998 Griffith University Research Infrastructure Grant 1998, Temperature and Conductivity Instrument Calibration Facility, \$15,897, Kirke and Lemckert
- 1997 Small Australian Research Council Grant for Initial Support. (Small ARC), Determining the Mixing Efficiencies of Interacting Bubble Plumes, \$21,123, Lemckert
- 1997 Deakin University Major Equipment Grant, Acoustic Current Profiler and Instantaneous Flow Meter for River Monitoring, \$80,000, Lemckert
- 1996 Small Australian Council Research Grant (Small ARC), Behaviour of Fountains Striking a Free Surface, \$23,123, Lemckert
- 1995 Environment Program of the Salinity Program and Flora, Fauna and Fisheries, Colac, Flushing of Riverine Saline Pools, \$5,400, Lemckert
- 1995 Faculty Research Grant, Faculty of Science and Technology, Deakin University, Spreading Behaviour of Radially Spreading Reversing Buoyancy Turbidity Currents, \$15,000, Lemckert
- 1995 Deakin University Commonwealth Staff Development Fund, Development of Remotely Operated Experiment for Distance Education and On-Campus Students, \$8,000, Lemckert
- 1995 Research Infrastructure, School of Engineering & Technology, Deakin University, Flushing of Riverine Salt Ponds – Acoustic Monitoring, \$3,850, Lemckert
- 1995 Research Infrastructure, School of Engineering & Technology, Deakin University, Vision System to control the Robot in the FMS Cell, \$4,500, Chetty, Baliga and Lemckert

RESEARCH PUBLICATIONS

Journal Special Issue (fully refereed)

1. ICS2007 (2007) Proceedings of the 9th International Coastal Symposium, Gold Coast, Queensland, Australia, 16-20 April, 2007, Ed. C. J. Lemckert, Journal of Coastal Research – Special Issue **50** (*electronic version available August 20, 2007 at www.griffith.edu.au/conference/ics2007/*)

Conference Proceedings (Editor) (all papers were fully refereed)

1. AAEE2013 (2013) Proceedings of the 24th Annual Conference of the Australasian Association for Engineering Education – AAEE2013, Ed. C. J. Lemckert, G. Jenkins and S. Lang-Lemckert, Published in Australia by: Griffith School of Engineering, Griffith University, Queensland, Australia, ISBN: 978-0-9924099-0-6
2. 16th AFMC (2007) Proceedings of the 16th Australasian Fluid Mechanics Conference, Gold Coast, Queensland, Australia 3-7 December 2007, Ed. P. Jacobs, T. McIntyre, M. Cleary, D. Buttsworth, D. Mee, R. Clements, R. Morgan and Charles Lemckert, ISBN: 978-1-864998-94-8, Published by School of Engineering, The University of Queensland
3. OCSEE 05 (2005) Proceedings of the International Conference on Ocean/Coastal Science, And Engineering Education, Gold Coast, Queensland, Australia 6-8 June 2005, Ed. C. J. Lemckert & S. M. Lang-Lemckert, ISBN: 1 920952 36 5, Published by Griffith University

Journal Articles Accepted for Publication (fully refereed)

1. Xie, G., Roiko, A., Stratton, H., Lemckert, C., Dunn, P. and Mengersen, K. (2016) Guidelines for Use of the Approximate Beta-Poisson Dose-Response Model, *Risk Analysis: An International Journal*, Article first Published on-line October, 2016, DOI: 10.1111/risa.12682

Journal Articles (fully refereed)

2. Brushett, B. A., Allen, A. A., King, B. A. and Lemckert, C. J. (2017) Application of Leeway Drift Data to Predict the Drift of Panga Skiffs: Case study of Maritime Search and Rescue in the Tropical Pacific, *Applied Ocean Research*, 67, 109-124
3. Dahl, N. W., Woodfield, P. L., Lemckert, C. J., Stratton, H. and Roiko, A. (2017) A practical model for sunlight disinfection of a subtropical maturation pond, *Water Research*, 108, 151–159
4. Ismaila, M. F. A., Ribbe, J., Karstensen, J., Lemckert, C., Lee, S., and Gustafson, J. (2017), The Fraser Gyre: A cyclonic eddy off the coast of eastern Australia, *Estuarine, Coastal, and Shelf Science*, 192 (5). 72–85
5. Pillai, k., Etemad-Shahidi, A. and Lemckert, C. (2017) Wave overtopping at berm breakwaters: Review and sensitivity analysis of prediction models, *Coastal Engineering*, 120C, 1-21
6. Spencer D. M., Brown I. W., Lee S. Y. and Lemckert C. J. (2017) Physical oceanographic processes affecting catchability of spanner crab (*Ranina ranina*) - a review, *Fisheries Research*, 186, 248-257
7. Wang, Y., Huang, Q., Lemckert, C. and Ma, Y. (2017) Laboratory and field magnetic evaluation of the heavy metal contamination on Shilaoren Beach, China, *Marine Pollution Bulletin* 117 (1), 291-301
8. Andutta, F. P., Helfer, F., Mirana, L. B., Deleersnijder, E., Tomas, and Lemckert, C. (2016) An assessment of transport timescales and return coefficient in adjacent tropical estuaries, *Coastal Shelf Research*, 124, 49-62
9. Brushett, B. A., King, B. A., & Lemckert, C. J. (2016) Assessment of ocean forecast models for search area prediction in the eastern indian ocean, *Ocean Modelling*, 97, 1-15
10. Reinke, J., Lemckert, C., and Meynecke, J. (2016) Coastal Fronts Utilised by Migrating Humpback Whales, *Megaptera novaeangliae*, on the Gold Coast, Australia, *Journal of Coastal Research*, 75, 552-556
11. Xie, G., Roiko, A., Stratton, H., Lemckert, C., Dunn, P. and Mengersen, K. (2016) A generalized QMRA Beta-Poisson Dose-response Model, *Risk Analysis: An International Journal*, 36 (10), 1948-1958
12. Yu, Y., Zhan, H., Spencer, D., Dunn, R. J. K. and Lemckert, C. (2016) An investigation of dispersion characteristics in shallow coastal waters, *Estuarine, Coastal and Shelf Science*, 180, 21–32
13. Beaudequin, D., Harden, F., Roiko, A., Stratton, H., Lemckert, C., and Mengersen, K. (2015) Beyond QMRA: modeling microbial health risk as a complex system using Bayesian networks, *Environmental International*, 80, 8-18
14. Beaudequin D., Harden, F., Roiko, A., Stratton, H., Lemckert, C., and Mengersen, K. (2015) Modelling microbial health risk of wastewater reuse: a systems perspective, *Environmental International, Environmental International*, 84, 131-141
15. Brieva, D., Ribbe, J. and Lemckert, C. (2015) Is the East Australian Current causing a marine ecological hot-spot and an important fisheries near Fraser Island, Australia?, *Estuarine, Coastal and Shelf Science*, 153 (5), 121–134
16. Etemad-Shahidi, A., Rohani, M., Parsa, J. and Lemckert, C. J. (2015) Effects of sea level rise on the salinity

- of Bahmanshir estuary, *International Journal of Environmental Science and Technology*, 12 (10) (2014), 3329-3340, DOI:10.1007/s13762-015-0761-x
17. Helfer, F., Lemckert, C. (2015) The Power of Salinity Gradients: An Australian Example, *Renewable & Sustainable Energy Reviews*, 50, 1-16
 18. Ali, A., Lemckert, C. J., Zhang, H. and Dunn, R. J. K. (2014) Sediment dynamics of a very shallow sub-tropical estuarine lake, *Journal of Coastal Research*, 30 (2), 351-361
 19. Arkwright, J. W., Underhill, I. D., Maunder, S. A., Jafari, A., Cartwright, N. and Lemckert, C. (2014) Fibre optic pressure sensing arrays for monitoring horizontal and vertical pressures generated by traveling water waves, *IEEE Sensors Journal*, 14 (8), 2739-2742
 20. Brushett, B. A., Allen, A. A., Futch, V. C., King, B. A., & Lemckert, C. J. (2014) Determining the leeway drift characteristics of tropical Pacific island craft, *Applied Ocean Research*, 44, 92-101
 21. Etemad-Shahidi, A., Pirnia, M., Moshfeghi, H. and Lemckert, C. (2014) Investigation of hydraulics transport time scales within the Arvand River estuary, Iran, *Hydrological Processes*, 28 (25), 6006-6015, doi: 10.1002/hyp.10095
 22. Helfer, F., Lemckert, C. and Anissimov, Y. G. (2014) Osmotic Power with Pressure Retarded Osmosis: Theory, Performance and Trends – A Review. *Journal of Membrane Science*. 453, 337–358, DOI: <http://dx.doi.org/10.1016/j.memsci.2013.10.053>
 23. Spencer, D., Lemckert, C. J., Yu, Y., Gustafson, J., Lee, S. Y., Zhang, H (2014) Quantifying Dispersion in an Estuary: A Lagrangian Drifter Approach, *Journal of Coastal Research*, SI 70, 29-34
 24. Yu, Y., Zhang, H. and Lemckert, C. J. (2014) Numerical analysis on the Brisbane River plume in Moreton Bay due to Queensland floods 2010-2011, *Journal of Environmental Fluid Mechanics*, 14, 1-24
 25. Yu, Y., Zhang, H. and Lemckert C. J. (2014) Salinity and turbidity distributions in the Brisbane River estuary, Australia, *Journal of Hydrology*, 519 (D), 3338-3352, DOI: 10.1016/j.jhydrol.2014.10.015
 26. Dunn, R. J. K., Lemckert, C. J., Teasdale, P. R. and Welsh, D. T. (2013) Macro-infauna dynamics and sediment parameters of a sub-tropical estuarine lake - Coombabah Lake (Southern Moreton Bay, Australia), *Journal of Coastal Research*, 29 (6a), 156 - 167
 27. Helfer, F., Sahin, O., Lemckert, C. J. and Anissimov, Y. G. (2013) Salinity gradient energy: a new source of renewable energy in Australia, *Water Utility Journal*, 5: 3-13, 2013.
 28. Schouten, P. W., Sharma, A., Burn, S., Goodman, N., Parisi, A., Downs, N. and Lemckert, C. J. (2013) Making small-scale classroom greenhouse gas flux calculations using a handmade gas capture hood, *Teaching Science*, 59 (1). pp. 48-53
 29. Yu, Y., Zhang, H. and Lemckert, C. J. (2013) Seasonal variations of the salinity and turbidity in the Brisbane River estuary, Queensland, Australia, *Journal of Coastal Research*, 65, 1253-1258
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 46. Holstein, D. M. and Lemckert, C. J. (2001) Spreading of Energetic Submerged Fountains Impinging on a Rigid Surface, 14th Australasian Fluid Mechanics Conference, Adelaide University, Adelaide, Australia, 10-14 December 2001, CD ROM

47. Howes, T., Lemckert, C., Cox, M., Hollywood, S., Moss, A., Neumann, L., and Page, D. (2001) Turbidity processes and management in the Brisbane River estuary, International Workshop on Estuary and Coastal Environmental Conservation Technology, Inha University, Korea, 19 September 2001, 143-165
48. Lemckert, C. J. and Forsyth, C. (2001) Water Column Destratification Using a Pulsed Jet System, 14th Australasian Fluid Mechanics Conference, Adelaide University, Adelaide, Australia, 10-14 December 2001, CD ROM
49. Schacht, C., Jeng, D. S. and Lemckert, C. J. (2001) Ocean Waves Propagating over a Submerged Breakwater in Front of a Vertical Wall, Proceedings of Coast and Ports, Gold Coast, Queensland, Australia, 26-28 September 2001, 539-544
50. Webster, T. and Lemckert, C. J. (2001) Saltwater Creek – A Study of Sediment Transport Patterns and Measurement Techniques for a Small Coastal Estuarine System, Proceedings of Coast and Ports, Gold Coast, Queensland, Australia, 26-28 September 2001, 505-510
51. Zigic, S., Mendelsohn D., King B. and Lemckert, C. J. (2001) Modelling the flow between two canals connected by an automated bi-directional gated structure, Gold Coast, Australia, Proceedings of Coast and Ports, Gold Coast, Queensland, Australia, 26-28 September 2001
52. Kuruppu, K. and Lemckert, C. J. (2000) Plunging Radius of Water Fountains Following Impact on a Rigid Surface, 7th Australasian Heat and Mass Transfer Conference, Townsville, Queensland, Australia, July, 2000
53. Lemckert, C. J. (1999) Improving the Delivery of Problem/Project-Based Learning in a Traditional Teaching Environment, 2nd Asia-Pacific Forum on Engineering & Technology Education, UICEE Sydney, Australia, 4 – 7 July, 1999
54. Zigic, S., King, B. and Lemckert, C. J. (1999) Mixing in a river system downstream of a bi-directional tidal exchange system, Proceedings of the 13th ASCE Engineering Mechanics Division Conference, Department of Civil Engineering, The Johns Hopkins University, Baltimore, MD, USA, June 13-16, 1999, CD-ROM
55. Lemckert, C. J. (1998) Bringing Problem Based Learning into a Traditional Teaching Environment, Australian Association for Engineering Education, 10th Annual Convention and Conference, Central Queensland University, September, 1998, 53-57
56. Florance, J. R., Long, J. M., and Lemckert, C. J. (1997) First-year engineering students and the non-traditional delivery of a practical, Proceedings of the Australian Association for Engineering Education, 9th Annual Convention and Conference, Ballarat University, December, 1997, CD-ROM
57. Lemckert, C. J. (1997) Laboratory studies over the Internet, Proceedings of the Second International Conference on Teaching Science for Technology at Tertiary Level, Stockholm, June, 1997. (CD-Rom).
58. Lemckert, C. J. and Florance, J. R. (1997), 'Considerations in the design of real-time Internet mediated laboratory experiments', Proc. 1st Asia-Pacific Forum on Engineering and Technology Education, USICEE, Monash University, Melbourne, Aust., pp. 303-306
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60. Lemckert, C. J. and Imberger, J. (1995) Turbulent Benthic Boundary Layers in Fresh Water Lakes, IUTAM Symposium – Physical Limnology, Broome, W.A., Australia, 1995, 409-422
61. Lemckert, C. J., Etemad-Shahidi, A. and Imberger, J. (1995) Mixing efficiencies in thermally stratified fluids, Proceedings of the 12th Australasian Fluid Mechanics Conference, University of Sydney, Australia, December, 1995, 359-362
62. Lemckert, C. J., Martin, T. and Wong, K. K. (1995) Remotely Operated Laboratory Experiments In Engineering for Distance Education Students, Proceedings of the Australian Association for Engineering Education, 7th Annual Convention and Conference, University of Melbourne, December, 1995, 381-383
63. Lemckert, C. J., Schladow, G. and Imberger, J. (1993) Destratification of reservoirs. Some rational design rules, 15th General Convention, Australian Water and Wastewater Association, Gold Coast, Queensland, April 18-23, 1993, 275-281
64. Luketina, D. A. L., Lemckert, C. J. and Imberger, J. (1992) Direct measurement of buoyancy flux in the field, Proceedings of the 11th Australasian Fluid Mechanics Conference, Hobart, Australia
65. Lemckert, C. J. and Jones, I. S. F. (1986) Why is it that entrainment is not related to internal wave energy, Proceedings of the 9th Australasian Fluid Mechanics Conference, Auckland, New Zealand

Refereed External Reports

1. Stratton, H., Lemckert, C., Roiko, A., Zhang, H., Wilson, S., Gibb, K., van der Akker, B., Macdonald, J., Melvin, S., Sheludchenko, M., Li, M., Xie, J., Padovan, A. and Lehmann, R. (2015) Validation of maturation ponds in order to enhance safe and economical water recycling. Australian Water Recycling Centre of Excellence. Available from

http://www.australianwaterrecycling.com.au/_literature_150992/Validation_of_maturation_ponds_in_order_to_enhance_safe_and_economical_water_recycling

2. Sherman, B. S., Lemckert, C. and Zhang, H. (2010) The impact of artificial destratification on reservoir evaporation. Urban Water Security Research Alliance Technical Report No. 35
3. Xi Y., Zhang, H., Lemckert, C. J., Brook, A. and Schouten, P. (2010) Evaporation Reduction by Suspended and Floating Covers: Overview, Modelling and Efficiency. Urban Water Security Research Alliance Technical Report No. 28
4. Helfer, F, Zhang, H. and Lemckert, C. J. (2009) Evaporation Reduction by Windbreaks: Overview, Modelling and Efficiency. Urban Water Security Research Alliance Technical Report No. 16.: Available from <http://www.urbanwateralliance.org.au/publications/UWSRA-tr16.pdf>
5. Webster, I, Atkinson, I, Bostock, H, Brooke, B, Douglas, G, Ford, P, Hancock, G, Herzfeld, M, Leeming, R, Lemckert, C, Margvelashvili, N, Noble, B, Oubelkheir, K, Radke, L, Revill, A, Robson, B, Ryan, D, Schacht, C, Smith, C, Smith, J, Vicente-Beckett, V and Wild-Allen, K (2006) The Fitzroy contaminants project :a study of the nutrient and fine-sediment dynamics of the Fitzroy Estuary and Keppel Bay, Technical Report no. 42, Cooperative Research Centre for Coastal Zone, Estuary and Waterway Management, Indooroopilly, Qld, <http://hdl.cqu.edu.au/10018/8355>

Other Papers (Limited Refereeing)

Conference Publications

1. Dahl, N. W., Lemckert, C. J., Woodfield, P.L., Stratton, H. M. and Roiko, A. (2016) Impact of the Daily Stratification/De-stratification Cycle on Maturation Pond Disinfection Efficiency: A Numerical and Field Study, 11th IWA Specialist Group Conference on Wastewater Pond Technology, University of Leeds, March 2016
2. Lemckert, C. J., Campbell, P. and Gibbes B. R.(2011) Occasional Enhanced Loss of Nutrient Material Through Water Supply Reservoir Overflows, 15th International Workshop on Physical Processes in Natural Waters: Fluids and Environments, Burlington, Ontario, Canada, July 11-14, 2011
3. Lemckert, C. J. (2011) Water industry engagement with the university sector – integrating the two, 4th Water Education Conference, 4th Water Efficiency Conference, 2nd WICD Conference, 1-3 March 2011, The Sebel Albert Park, Melbourne
4. Lemckert, C. J., Gibbes, B.R., Zier, J. and Udy, J. (2010) Impact of a Hydroelectric power station on water mixing processes within a stratified lake, Proceedings of the 14th International Workshop on Physical Processes in Natural Waters (H. O. Andradottir (Ed.)), June 28 – July 1, Reykjavik, Iceland, pp. 166
5. Lemckert, C. J. (2007) New educational strategies in tertiary-level engineering education, Engineering Training and Learning Conference, 12th & 13th September 2007, Brisbane, Australia
6. Williams, P. and Lemckert, C. J. (2006) Gold Coast beach use & carrying capacity, The Second International Conference on the Management of Coastal Recreational Resources, 25-27 October, 2006, Gozo, Malta, 229-233
7. Knight, J. M., Dale, P., Dunn, R. J. K., and Lemckert, C. J. (2006) Patterns of tidal flushing within a mangrove forest: Lake Coombabah, south east Queensland, Australia, Catchments to Coast Conference, 9-14 July, 2006 Cairns, Australia.
8. Stratton, H., Smith, S. and Lemckert, C. J. (2006) Replacing indicator organisms with real pathogens – optimisation of molecular genetic techniques for detecting pathogens in water. Is it possible?, Invited paper at ENVIRO 06, Congress, Exhibition & Conference, 9 – 11 May 2006, Melbourne Exhibition and Convention Centre, Paper Number e6413
9. Gabriel, G., Comley, B., Lemckert, C. J. and Sterry, S. (2004) A comparative assessment of erosion protection devices in an urbanised waterway, Proceedings of Coastal Zone Asia-Pacific Conference '04, 5-9 September, 2004, Brisbane, Australia, CD-ROM, 261-265
10. Lemckert, C. J. (2004) Enhancing coastal engineering and management education using an industry affiliates program, Proceedings of Coastal Zone Asia-Pacific Conference '04, 5-9 September, 2004, Brisbane, Australia, CD-ROM, 92-97
11. Philips, B., Stuart, G. and Lemckert, C. J. (2004) Management of dune encroachment – a Gold Coast (Queensland, Australia) experience, Proceedings of Coastal Zone Asia-Pacific Conference '04, 5-9 September, 2004, Brisbane, Australia, CD-ROM, 486-495
12. Howes, T., Lemckert, C. J. and Moss, A. (2002) Turbidity of the Brisbane River, *Water*

Consultancy and Internal Reports

1. Michelle Burford, Rod Connolly, Peta Leahy, Charles Lemckert, Rodger Tomlinson, (2014) Monterey Keys Lake Algal Bloom Scoping Study, Griffith Centre for Coastal Management Research Report No. 164.1

2. Zier, J., Gustafson, J. and Lemckert, C. J. (2009) Torres Strait tidal study
3. Lemckert, C. J. (2008) Wivenhoe Dam Field Trip Report, February 08-22, 2008 (includes 6 appendices)
4. Lemckert, C. J. (2006) Evans head current measurements 2nd August 2006, Report EH_Aug_2_2006
5. Lemckert, C. J. (2006) Wimmera Field Report, 06/04/2006, Centre for Infrastructure and Engineering anagement Report No: LP0562390-01
6. Lee, S. Y., Connolly, R. M., Dale, P. E. R., Dunn, R., Knight, J. N., Lemckert, C. J., Mckinnon, S., Powell, Teasdale, P. R., B., Welsh, D. T. and Young, R. (2006) The impact of urbanisation on coastal wetlands: a case study of Coombabah Lake, southeast Queensland, CRC for Coastal Zone, Estuary and Waterway Management, Technical Report No. 54
7. Kirkpatrick, S., Robertson, A., Connolly, R., Preston, K., Teasdale, P., O'Halloran, K., Tomlinson, R., Lemckert, C. J., Webster, T., Burns, P., Leonard Cheung, L. and Hlinovsky, P. (2005), Saltwater Creek Environmental Inventory: Volume 1, Griffith Centre for Coastal Management
8. Lemckert, C. (2004) Pimpama River Estuary Ecological Study Task 5.2 – Tidal Water Level Gauging and Task 6 – Advection Dispersion (AD) Data, Data Report, Report to Sinclair Knight Mertz
9. Scraggs, C. and Lemckert, C. (2004) Pimpama River ADCP Transects, Report to Sinclair Knight Mertz
10. Scraggs, C., Schacht, C., Benfer, N. and Lemckert, C. (2003) Field data report, Noosa river ADCP transects conducted on December 20 2002, Report to Noosa City Council
11. Lemckert, C. J. (2001) Laboratory Examination of Particle Sizes in Supplied Water Samples, Report for Lionel Freedman, Director, Quantum Power
12. Zigic, S. and Lemckert, C. J. (2000) The 15-16 December 1999, CTD and ADCP data collection program for the Mary River, Report to WBM Pty Ltd Oceanics Australia
13. Feaver, S. Saggio, A., Rio, C. and Lemckert, C. J. (1996) Lake Kinneret Boundary Layer Study, Centre for Water Research Report, University of Western Australia
14. Lemckert, C. J. and Armfield, S. (1996) Investigation of the Flushing of Riverine Saline Pools, A Report to the Corangamite Salinity Forum, and Flora Fauna and Fisheries, Colac, Report No. 9601, School of Engineering and Technology, Deakin University
15. Lemckert, C. J. (1994) Conversion equations used in conjunction with the data collection software of the microstructure and finescale probes, Centre for Water Research Report, University of Western Australia, Internal reference WP-802-CL
16. Lemckert, C. J. (1994) Moored acoustic Doppler current meter user manual, Centre for Water Research Report, University of Western Australia, Internal reference WP-801-CL
17. Lemckert, C. J. (1993) Acoustic Doppler Current Meter (ADCM) User Manual, Centre for Water Research, University of Western Australia, Internal Reference WP-804-CL
18. Lemckert, C. J. (1993) ADCM test results derived from experiments performed between February and July, 1993, Centre for Water Research, University of Western Australia
19. Lemckert, C. J. (1992) Instructions for the Preliminary Processing of data collected with the Portable microstructure Flux profiler for the Japan field trip 92251, Centre for Water Research Report, University of Western Australia, Internal reference WP-728-CL
20. Lemckert, C. J. (1991) Lake Argyle data report; Part III – MFP data, Centre for Water Research Report, University of Western Australia, Internal reference WP-337-CL
21. Lemckert, C. J. (1991) Lake Argyle data report; Part IV – Fluorometry and current meter data, Centre for Water Research Report, University of Western Australia, Internal reference WP-534-CL
22. Lemckert, C. J. (1990) MFP field experiment trial Wungong 89335, Appendix 1 in Centre for Environmental Dynamics A Progress Report, Proposal Number: P90024, Jan. 1990, J. Imberger (ed.). Report for the Centre for Water Research, University of Western Australia
23. Lemckert, C. J. (1990) Wungong 88052 experiment data collection summary, Centre for Water Research Report, University of Western Australia, Internal reference WP-337-CL
24. Lemckert, C. J. (1990) Wungong reservoir data report: Experiment 89335, Centre for Water Research Report, University of Western Australia, Internal reference WP-478-CL
25. Lemckert, C. J. (1989) Harding 89095 experiment data collection summary, Centre for Water Research Report, University of Western Australia, Internal reference WP-344-CL
26. Lemckert, C. J. (1989) Wellington 88232 experiment data collection summary, Centre for Water Research Report, University of Western Australia, Internal reference WP-338-CL
27. Lemckert, C. J. (1987) Calibration of the sound velocity sensor. Department of Geology and Geophysics, University of Sydney Report prepared for Racal Survey Limited, W. A.
28. Marine Studies Centre (1987) Bass Strait continental slope current meter records from 16/7/82 to 5/9/82, University of Sydney Report prepared for Lawson and Treloar Pty Ltd Consulting Engineers, Sydney, N. S. W. Data analysed and report compiled by C. J. Lemckert

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30. Tomczak Jr, T. and C. J. Lemckert (1987) Assessment of water quality for the Port Hacking Estuary, from Port Hacking Estuary environmental impact study, N. S. W. Public Works Department Report No. 87011, Appendix

Refereed Abstracts

With Oral and/or Poster Presentations:

- Andutta, F. P., Wang, X. H., Williams, D., Lemckert, C. and Ridd, P. (2016) Larger Waves Driven by Australian Monsoons Affect Suspended Sediment Concentration in a Micro-Tidal System, Darwin Harbour, Asia Oceania Geosciences Society (AOGS) 13th Annual Meeting, Beijing, China, 31 July – 5 August, 2016
- Reinke, J., Franklin, T., Franklin, W., Meynecke, O. and Lemckert, C. (2016) Environmental Preferences of Humpback Whales, Megaptera Novaeangliae, in Hervey Bay, Queensland, Australia, Asia Oceania Geosciences Society (AOGS) 13th Annual Meeting, Beijing, China, 31 July – 5 August, 2016
- Spencer, D., Lemckert, C., Brown, I. and Lee, S. Y. (2016) A New Perspective on the Effects of Ambient Temperature on Spanner Crab (*Ranina Ranina*) Catchability in South East Queensland, Australia, Asia Oceania Geosciences Society (AOGS) 13th Annual Meeting, Beijing, China, 31 July – 5 August, 2016
- Lemckert, C. J. (2016) Enhancing Coastal Zone Management Education of Engineering Students and Beyond, International Coastal Symposium, Sydney, Australia, 6-11 March, 2016
- Fernando, A.; Wang, X. H., David, W., Lemckert, C. and Ridd, P. (2016) Larger waves driven by Australian Monsoons affect suspended sediment concentration in Darwin Harbour, AMOS/ARCCSS National Conference, Melbourne, 8-11 February 2016
- Reinke, J., Meynecke, O. and Lemckert, C. (2016) Factors Impacting the Migration Paths of Humpback Whales, *Megaptera novaeangliae*, in Queensland, Australia, 2016 Ocean Sciences Meeting, New Orleans, 19-24 Feb, 2016
- Brushett, B. A., King, B. and Lemckert, C. (2015) Assessment of Metocean Forecast Data and Consensus Forecasting, Presented at the Australian Forum for Operational Oceanography – FOO 2015 Conference, Fremantle. July 2015, Website: <http://www.event.com/events/forum-for-operational-oceanography-foo-2015-/event-summary-e4767d62ff534b1d9611e383e9dd3c53.aspx>
- Brushett, B. A., King, B. and Lemckert, C. (2015) Application of Leeway Drift Data to Predict the Drift of Panga Skiffs: Case study of Maritime Search and Rescue in the Tropical Pacific, Australia and New Zealand Search and Rescue Conference 2015, Gold Coast. May 2015, Website: <http://sar.anzdmc.com.au/>
- Brushett, B. A., Allen, A., King, B. and Lemckert, C. (2015) Predicting the Drift of Panga Skiffs: Case study of Maritime Search and Rescue in the Tropical Pacific, Poster presentation at the Australian Forum for Operational Oceanography – FOO 2015 Conference, Fremantle. July 2015, Website: <http://www.event.com/events/forum-for-operational-oceanography-foo-2015-/event-summary-e4767d62ff534b1d9611e383e9dd3c53.aspx>
- Hughes, L., Tomlinson, R. and Lemckert, C. (2015) Why Did the Turtle Swim Away? A Three Dimensional Investigation Parametrising Coastal Processes, Asia Oceania Geosciences Society (AOGS) 12th Annual Meeting, August 2 to 7, 2015, Singapore
- Rienke, J., Lemckert, C. and Meynecke, O. (2015) Humpback Whale Distribution Relative to Environmental Conditions, Asia Oceania Geosciences Society (AOGS) 12th Annual Meeting, August 2 to 7, 2015, Singapore
- Ribbe, J., Brieva, D. and Lemckert, C. (2015) Evidence of upwelling near Fraser Island, Australia, Geophysical Research Abstracts, Vol. 17, EGU2015-110, EGU General Assembly 2015
- Spencer, D., Lemckert, C., Brown, I. and Lee, S. Y. (2015) Physical Drivers Affecting the Catchability of Spanner Crabs (*Ranina Ranina*) in Eastern Australian Waters, Asia Oceania Geosciences Society (AOGS) 12th Annual Meeting, August 2 to 7, 2015, Singapore
- Hughes, L., Kobashi, D. J., Robertson, R., Tomlinson, R. and Lemckert, C. (2013) Whispers from a Forgotten Shoreline, 19th National Conference of the Australian Meteorological and Oceanographic Society (AMOS), 11-13 February, 2013, Melbourne Convention and Exhibition Centre
- Lemckert, C. and Cooper, J. A. G. (2013) Extreme sea-level rise and adaptation options for coastal resort, 8th International Conference on Geomorphology of the International Association of Geomorphologists (IAG), August 27 to 31, 2013, Cité des Sciences de La Villette, Paris, France
- Ribbe, J. and Lemckert, C. J. (2013) A Review of Australian Hypersaline and Inverse Coastal Estuaries and Bays, ECSA (Estuarine & Coastal Sciences Association) 53: Estuaries and coastal areas in times of intense change, 13 – 17 October 2013, Shanghai, China

- Lee, S., Lemckert, C., Acworth, C. and Schwartz, R. (2012) Queensland Storm Tide Inundation Modelling and Mapping Guidelines, Coast to Coast Conference, 17-21 September, 2012, Brisbane, Australia
- Brayshaw, S., Lemckert, C. J. (*presenter*) and Lee, S. Y. (2012) Influence of Sand Bypassing Operations on Coastal Beaches, 32nd International Congress, August, 2012, Cologne, Germany
- Lemckert, C., Gibbes, B. and Burfird, M. (2012) Migration of zooplankton and its impact on water quality within reservoirs, Ocean Sciences Meeting, February, 2012, Salt Lake City, USA
- Lemckert, C. J. and Brook, A. (2011) Depth of Disturbance on Beaches and How the X-Earth Center can help, 2nd International Workshop on X-ray CT for Soci-Cultural, Engineering & Environmental Materials, IW2011, Dec 7-8, 2011, Kumamoto University, Japan
- Brushett, B., King, B. A. and Lemckert, C. J. (2011) The use of a search and rescue model (SARMAP) to predict the drift of SVP buoys in the Tasman Sea – a consensus forecasting approach, 4th International Workshop on Technologies for Search and Rescue and other Emergency Marine Operations, 10-13 May, Brest, France (<http://saferseas.org/Home-519-0-0-0.html>)
- Hughes, L., Lemckert, C. J. and Tomlinson, R. (2010) Apparently insignificant anthropogenic impacts can result in expensive long term damage if coupled to severe weather and or climate change, Meteorological Society of New Zealand and the Australian Meteorological and Oceanographic Society, Joint Conference on Extreme Weather 2011, 9-11 February 2011, Te Papa, Wellington, New Zealand
- Wu, J. and Lemckert, C. J. (2007) Enhanced mixing by an internal hydraulic jump in a stratified estuary, AOGS2007, 4th Annual Assembly – Bangkok, 30 July to 4 August 2007
- Nishi, T., Lemckert, C. J. and Yamada, F. (2007) Euler-Lagrange measurements for estimating the sediment transport parameters in intertidal zone, Annual Journal of Coastal Engineering, Japan Society of Civil Engineers, Vol. 54, *In Japanese*
- De Clercq, B., Brannock, M., Lemckert, C. J., Howes, T., Lant, P. and Vanrolleghem P. (2002) Experimental techniques for validation and calibration of hydrodynamic wastewater treatment models, Fourth International Conference on Advances in Fluid Mechanics: 15-17, May 2002, Ghent Belgium
- De Clercq, B., Brannock, M., Lemckert, C., Lant, P. and Vanrolleghem, P. (2002) Fundamental understanding of flow patterns and particle size distributions in gravity settlers in wastewater treatment plants, World Congress on Particle Technology: 21-25 July 2002, Sydney, Australia
- Lemckert, C. J. and Hunt, S. (2000) Flocculation behaviour within a partially stratified microtidal estuary The 10th International Biennial Conference on Physics of Estuaries and Coastal Seas, 7-11, October 2000, Virginia, USA
- Smith, M., Stevens, C., Lemckert, C. J. and McGregor, J. (2001) Turbulent mixing and exchange near the sea surface, AMSA – NZMSS 2001 Conference, 3-6, July 2001, Townsville, North Queensland, Australia

Edited Teaching Publications (Printed course material sent to Deakin University Off-campus students)

- Lemckert, C. J. (1996) Air and Noise Pollution Control – Module 2 in Environmental Engineering 3, Undergraduate Course, SEV313, Deakin University, Waurn Ponds, 3217, Australia.
- Lemckert, C. J., Selvalingam, S. and Ferguson, C. (1995) Fluid Mechanics Undergraduate Course SEM319, Deakin University, Waurn Ponds, 3217, Australia
- Lemckert, C. J., Selvalingam, S. (1996) Coastal Engineering Undergraduate Course, SEV342, Deakin University, Waurn Ponds, 3217, Australia
- Selvalingam, S. and Lemckert, C. J. (1995) Coastal Engineering Management, Postgraduate Course SEN614, Deakin University, Waurn Ponds, 3217, Australia
- Selvalingam, S., Lemckert, C. J. and Ferguson, C. (1995) Mechanics of Fluids Undergraduate Course SEM218, Deakin University, Waurn Ponds, 3217, Australia

Selected Oral Presentations (other than refereed conferences publications where I am first Author)

- 2017 Coastal Zone Management in Remote Zones - An exploding situation?, 3rd End User Day and RISC-KIT Final Conference, 5-7 April 2017, Delft, Netherlands
- 2016 Impact of the daily stratification/destratification cycle on maturation pond disinfection efficiency – a numerical and field study, 11th IWA Specialist Group Conference on Wastewater Pond Technology Conference, Leeds, England, March, 2016
- 2016 Environmental Preferences of Humpback Whales, Megaptera Novaeangliae, in Hervey Bay, Queensland, Australia, Asia Oceania Geosciences Society (AOGS) 13th Annual Meeting, Beijing, China, 31 July – 5 August, 2016
- 2015 Adaptation Options for Coastal Resort Cities Under Slow but Extreme Sea Level Rise, DELFT, Netherlands, June 2015

- 2014 Measurement of the Scale Effect on Breaking Waves, The 4th Australia - China Ocean Science & Technology Symposium, Qingdao, China. September 2014
- 2014 Real Time Mediated Laboratory Experiments, Griffith School of Engineering Learning and Teaching Seminar Series, October, 2014
- 2012 Influence of Sand Bypassing Operations on Coastal Beaches, 32nd International Congress, Cologne, Germany, August, 2012
- 2012 Turbulence measurements off the Gold Coast, Queensland, Australia - China Ocean Science & Technology Symposium No. 3, ACOST3, Sydney Institute of Marine Studies, NSW, Australia, 24 to 30 June 2012
- 2012 Urban Water Research Security Alliance Evaporation Study Talk, Brisbane, Queensland, May 25, 2012
- 2012 Smart Water Research Centre, Queensland Water Directorate, Emerald, Queensland, April, 2012
- 2012 Migration of zooplankton and its impact on water quality within reservoirs, Ocean Sciences Meeting, Salt Lake City, February, 2012
- 2011 Fluxes in Shallow Water Estuarine Systems, Kumamoto University, Japan, December, 2011
- 2011 Depth of Disturbance on Beaches and How the X-Earth Center can help, 2nd International Workshop on X-ray CT for Soci-Cultural, Engineering & Environmental Materials, IWX2011, Dec 7-8, Kumamoto University, Japan
- 2011 Turbulence in near coastal waters, QMOS Meeting, 4 August, 2011
- 2011 Occasional Enhanced Loss on Nutrient Material through Dam Overflows, Physical Processes in Natural Waters, Canada, June, 2011
- 2011 Turbulence in near coastal waters of the Gold Coast, Queensland, AMOS Conference, Fremantle, WA., June 2011
- 2010 Impact of a Hydroelectric power station on water mixing processes within a stratified lake, Physical Processes in Natural Waters, Iceland, June, 2010
- 2010 SEQW Information Day – Presented talk entitled “Splyard creek study”
- 2008-2010 UWRSA Presentations to Research Advisory Committees and UWRSA Board – Reduction Project
- 2007 Griffith School of Engineering Orientation Day – Presented a talk entitled “What’s hot in coastal engineering?”
- 2005 Dynamics Planet Conference, Cairns, Australia. Presented a talk entitled “Suspended sediment measurements using a drogue equipped with an ADCP – a new approach to data collection”
- 2005 INTERCOH 2005 (International Conference on Cohesive Sediments)– September 20-24, Saga, Japan, 2005. Presented a talk entitled “Use of Drogue to Study Near-Surface Suspended Sediment Dynamics within a Macro Tidal Estuary”
- 2004, 2005 Coastal Engineering – A career for the future, TSEXPO, Brisbane, Australia
- 2004 Coastal Zone Asia Pacific Conference, Brisbane, September, 2004. Presented a talk entitled “Enhancing Coastal Engineering and Management Education using an Industry Affiliates Program”
- 1997 Joint Assembly of the International Association of Meteorology and Atmospheric Sciences and International Association for the Physical Sciences of the Ocean, Melbourne, Australia
- 1996 School of Engineering and Technology, Deakin University, School seminar entitled Fluid Laboratories the Off Campus Way – Report on the FLOW Project
- 1995 School of Engineering and Technology, Deakin University, School seminar entitled Mixing induced by turbulent benthic boundary layers
- 1994 School of Engineering and Technology, Deakin University, School seminar entitled Energetic bubble plumes in arbitrary stratification
- 1993 Seminar presented at the Centre for Water Research, University of Western Australia. The title was: Turbulent vertical mass transport in stratified lakes, estuaries and coastal seas. Joint speaker with Prof. J. Imberger
- 1992 Seminar presented at the Centre for Water Research, University of Western Australia. The title was Axisymmetric gravity currents generated by bubble plumes
- 1991 International Symposium on Environmental Hydraulics, Hong Kong. Presented a talk entitled Mean and turbulent motions around a bubble plume
- 1990 Engineering Department Presentation, University of Western Australia
- 1989 Centre for Water Research Postgraduate Seminar, University of Western Australia.
- 1988 Second Conference on Air-Sea Interactions, Merimbula, N. S. W. Presented a talk entitled Turbulent diffusion through fronts
- 1986 Air-Sea Interactions and its Consequences Conference, University of Sydney, N. S. W. Presented a poster and 5 minute talk entitled Why is it that entrainment is not related to internal wave energy

1985 Marine Studies Centre Honours Project Presentation, University of Sydney, N. S. W. Presented a talk entitled Aspects of mixing across stratified interfaces.

Invited Speaker

2013 10th Asia Oceania Geosciences Society (AOGS) annual meeting, Brisbane, Australia, June 24 - 28, 2013 for the session entitled “Coastal Change: the Response of Coasts to Sea-level Changes, Geological Processes and Catastrophic Events”

2011 2nd International Workshop on X-ray CT for Soci-Cultural, Engineering & Environmental Materials, IWX2011, Dec 7-8, Kumamoto University, Japan – All expenses paid

2008 Global Joint Education Center for Science and Technology, Division of International Joint Education, Kumamoto University, Japan – All expenses paid

2005 Australasian Marine Science Association Annual Conference

2005 Release of Water from Navigation Locks Equipped with a Swinging Gate and the Implications for Environmental Design, Plymouth University, England, September 28, 2005

2004 Initial Spreading Behaviour of Water Released From a Swinging Gate Lock – Hong Kong University of Science and Technology

2004 Advances in water quality monitoring – suspended sediments – Hong Kong Engineers

2004 Influence of gate properties on lock exchange flows – implications to canal management and design – Hong Kong University

2002 Key Note Lecture: “A New Approach To The Determination of Cohesive Sediment Resuspension Below Waves”, International STRAEE Workshop run by the Coastal Processes Research Unit, Università di Ferrara, Italy

2002 Gold Coast Water Evening

2001 Cooperative Education, GIHE

2000 IEAust Gold Coast Division

1998 Excellence in Teaching and Learning Series, Griffith University

1997 Information Evening, Salt Action, Corangamite Regional Salinity Forum

OUTCOMES OF TEACHING ACTIVITIES

Program Development

- 2010-2012 Bachelor of Engineering in Mechanical Engineering (planning team member)
- 2006-2010 Master of Engineering (planning team member)
- 2006-2008 Bachelor of Science (Water Resources) (planning team member)
- 2004-2008 Bachelor of Marine Science (planning team member)
- 1998-2000 Bachelor of Engineering in Coastal Engineering (full development)
- 2001 Master of Engineering in Coastal Engineering (planning team member)
- 1997-1998 Bachelor of Engineering in Civil Engineering (Coastal Engineering Major) (full development)
- 1996-1997 Bachelor of Technology in Coastal Resource Management, Deakin University (full development)

Program Convenor

- 2011-2012 Bachelor of Technology – Civil Engineering
- 2007-2010 Bachelor of Engineering in Civil Engineering/Bachelor of Science Double Degree
- 2001-2012 Bachelor of Engineering in Coastal Engineering
- 1997 Bachelor of Technology (Coastal Resource Management) – Deakin University
- 1996-1997 Assistant – Bachelor of Environmental Engineering and Bachelor of Technology – Deakin University

Initial Course Development (* denotes full off-campus delivery mode with printed edited material)

- 2015 Advanced Water Engineering Practice (50%)
- 2013 Thesis
- 2010 Thesis in Civil Engineering
- 2009 Marine Systems II
- 2008 Introduction to Marine Science
- 2004 Coastal Engineering Practices
- 2003 Coastal Industry Affiliates Program
- 2003 Design and Drafting (Coastal Engineering Module)
- 2002 Coastal and Estuarine Hydrodynamics
- 2000 Coastal Systems Management
- 2000 Coastal Zone Management
- 1998 Coast Engineering Design
- 1998 Coastal Systems
- 1997 Water and Wastewater Engineering – Griffith University
- 1997 Hydraulics 2 – Griffith University
- 1997 Air and Noise Pollution – Postgraduate Course – Deakin University*
- 1996 Marine Ecology (Physical Oceanography Module) – Deakin University*
- 1996 Environmental Engineering 3 (Air and Noise Pollution Control Module) – Deakin University*
- 1996 Coastal Engineering Management, (Coastal Environments Module) Deakin University*
- 1995 Coastal Engineering – Deakin University*
- 1994 Fluid mechanics – Deakin University*

Course Teaching (+ denotes off-campus also students enrolled in Courses)

- 2017 - Introduction to Built Environment Management
- 2015-2016 Advanced Water Engineering Practice (50%)
- 2000-2016 Coastal Zone Management
- 2011-2014 Coastal Systems Management
- 2009-2012 Marine Systems II
- 2007-2014 Thesis (various forms)
- 2009 Engineering Practice and Sustainability (member of teaching team)
- 2008-2014 Introduction to Marine Science
- 2007-2009 Urban Infrastructure and Pollution (member of teaching team)
- 2007-2009 Project
- 2006 Water and Wastewater Engineering (member of teaching team)
- 2004-2005 Coastal Engineering Practices
- 2004-2005 Earth Sciences (member of teaching team)
- 2003-2006 Coastal Industry Affiliates Program
- 2003-2006 Design and Drafting (member of teaching team)
- 2002-2003 Coastal and Estuarine Hydrodynamics

2000-2002 Sustainable Water Resources
2000-2008 Coastal Systems Management
1999-2007 Coastal Systems
1999-2001 Coastal Engineering Design
1999-2000 Dissertation
1998-2000 Issues in Modern Technology
1998-1999 Pollution Control in Civil Engineering
1997-1998 Hydraulics 2 – Griffith University
1997-2002 Water and Wastewater Engineering – Griffith University
1997 Environmental Engineering, Air and Noise Pollution Control – Deakin University⁺
1997 Air and Noise Pollution (Postgraduate Students) – Deakin University⁺
1996-1997 Engineering/Tech. Projects 1, Research methodologies – Deakin University⁺
1996-1997 Coastal Engineering Management, Coastal Environments (Postgraduate students) – Deakin University⁺
1995-1997 Coastal Engineering – Deakin University⁺
1994-1996 Fluid statics and dynamics – Deakin University⁺
1994-1996 Fluid mechanics – Deakin University⁺

Additional Courses Convened (⁺ denotes off-campus students enrolled in courses)

2010-2015 Industrial Affiliates program – Campus Discipline Coordinator
2007-2008 Urban Infrastructure and Pollution (Gold Coast Campus Convenor)
2004 Materials and Testing
1999-2000 Dissertation (Masters by Course Work)
1998-2006 Issues in Modern Technology
1997 Transport and the Environment – Deakin University⁺
1996-1997 Road and Traffic Engineering (Postgraduate Course)– Deakin University⁺
1996 Bachelor of Technology and Bachelor Engineering Projects – Deakin University⁺

INTERNET RESOURCE DEVELOPMENT

1999 School of Engineering Pages
1998-2000 Beach Safety Recourse Page (funded by Griffith University Community Service Project)
1998-2000 Production of Internet Site for ENG3082 Coastal Engineering Design

COMPLETED SUPERVISION OF RESEARCH HIGHER DEGREE CANDIDATES

2017 PhD – Yvonne Yu – Brisbane River dynamics (co-supervisor)
2016 PhD – Daniel Brieva – Marine dynamics at the shelf break and their impact upon the shelf circulation off Southern Queensland, Australia
2015 PhD – Ben Brushett – Search and Rescue Consensus Modelling
2012 PhD – Fernanda Helfer – Evaporation Control from Reservoirs
2012 PhD – Serena Lee – Sydney Harbour dynamics (Associate supervisor)
2010 PhD – Ayub Ali – Cohesive Sediment Dynamics in a Shallow Water Estuary
2009 PhD – Ryan Dunn – Dynamics of a Shallow Estuary
2006 PhD – Christie Schacht – Sediment Settling in Estuaries
2005 PhD – Sasha Zigic – Influence of Hydraulic Lock Structures on Water Quality
2004 PhD – Luis Neumann – Flocculation Dynamics (Associate supervisor)

2014 MPhil – Zoe Elliot (National University of Ireland) – Maerl Beaches (associate supervisor)
2012 MPhil – Johann Gustafson – Sea Grass Beds
2011 MPhil – Yvonne Yu – Coastal Dynamics
2011 MPhil – Adam Brook – Depth of Disturbance on Sandy Beaches
2010 MPhil – Peta Williams – Beach Carrying Capacity
2002 MPhil – Shannon Hunt – Sediment Movement through a Partially Stratified Estuary
2000 MAppSc – John Florance – Remote Fluid Laboratory for Off-Campus Students – Deakin University
1997 MEng – Gary Miller: Aircraft Noise Metrics and Landuse Compatibility – Deakin University

CURRENT SUPERVISION OF RESEARCH HIGHER DEGREE CANDIDATES

2016 PhD – Emad Kavehei – Carbon cycle of wetlands (associate-supervisor)
2016 PhD – Azzuni Abdelrahman – Pressurised Reverse Osmosis (associate-supervisor)

- 2014 PhD – Nicholas Dahl – Dynamics of shallow water ponds (co-supervisor)
- 2014 PhD – Karthika Pillai – Wave over topping for breakwater structures (co-supervisor)
- 2014 PhD – David Spencer – Impact of physical processes and spanner crab populations (co-supervisor)
- 2014 PhD – MD Sharifuzzaman – Gravity current dynamics (co-supervisor)
- 2013 PhD – Johan Gustafson – Shark movements of South East Queensland (co-supervisor)
- 2013 PhD – Joshua Reinke – Whale migration patterns (co-supervisor)

CONSULTANCIES AND EXTERNAL WORK (while at Griffith University)

Consultancy

- 2013 Salinity outfall flow measurements - UQ
- 2011-2012 Hay Point Flow Monitoring – WP
- 2011 Suspended sediment measurements – APASA
- 2011 Velocity Measurements in a Harbour – APASA
- 2010 Velocity Measurements in a Stratified Environment – APASA
- 2010 Particle size measurements in Gladstone Harbour – APASA
- 2009 Gladstone Harbour Flow Study – WP
- 2009 Weipa Flow Study – WP
- 2008 Darwin Harbour Sediment Transport Study – APASA
- 2008 Dye Tracer Study for ODX PWSS Pilot Plant Works – GHD
- 2008 Eli Creek Tidal study – BellEng
- 2007 Tidal measurements – APASA
- 2006 Evans Head Study
- 2004 Pimpama River Environmental Study – Rapid Response for Pimpama River Monitoring – SKM
- 2003-2004 Pimpama River Environmental Study – CTD Sensors Dec 2003–Jan 2004 – SKM
- 2003 Port of Brisbane Wave Study – DHI
- 2003 Pumicestone Passage ADCP Transects – QUT
- 2003 Pimpama River Environmental Study – Tidal Water Level Gauging and Advection Dispersion Data Component – SKM
- 2003 ADCP Flow Measurements – Manly Hydraulics Laboratory
- 2003 April 2003 ADCP flow measurements of Noosa River, Noosa Council Works Directorate
- 2002 Dec 2002 ADCP flow measurements of Noosa River, Noosa Council Works Directorate
- 2002 In situ particle sizing in Lake Burragarang, NSW, Centre for Water Research, University of Western Australia
- 2001 Salt Water Creek Stream Bank Erosion Study, Gold Coast City Council
- 2001 Nerang River Flows, Tidal Power Study
- 2001 Fingel Beach Water Velocity Measurements – Qld EPA
- 2001 Laboratory Examination of Particle Sizes in Supplied Water Samples – Quantum Power
- 1999 Determination of Headloss Through Expanded Metals
- 1999 WBM Pty Ltd Oceanics Australia – Mary River ADCP and CTD Measurements
- 1999 WBM Pty Ltd Oceanics Australia – ADCP Training
- 1997-1999 Phillip Bell and Associates Pty Ltd – Water Quality Adjacent to a Developing Subdivision
- 1998 HydrooceanTech –Bubble Plume Curtain Design – Possible further work
- 1998 Gold Coast City Council – Engineering Directorate, Developing a database for beach profile records. Involves an undergraduate student project
- 1998 Making Investments Pty Ltd, Water Quality within the Nerang River System, Involves an undergraduate student project and has led to a successful SPIRT grant application
- 1998 SMEC – Water Sampling Methodology Input
- 1998 Manly Hydraulics Laboratory – Coastal equipment hiring

Other External Work

- 2011-2013 2011-2012 Invited by USA Coastguard to Participate in SAR Study - Search and Rescue Exercise (SAREX)
- 2007-2009 Invited and participated in joint national experiment on flow and sediment transport mechanisms in Sydney Harbour, by Department of Geology and Geophysics, University of Sydney
- 2002 Invited and participated in joint international experiment on sediment transport mechanisms in Venice Lagoon by the Coastal Processes Research Unit, Università di Ferrara, Italy
- 2000 Invited and participated in joint national experiment with Dr David Hamilton, Centre for Water Research, University of Western Australia, on a project entitled Effects of Sediment Resuspension on a Shallow Estuarine System

INTERNATIONAL/NATIONAL CONFERENCE COMMITTEE INVOLVEMENT

- 2011-2013 **Chair** – Australasian Association for Engineering Education, Dec. 8-13, 2013, Gold Coast, Australia: <http://www.aee.com.au/conferences/2013/>
- 2011-2013 **Chair and Organiser** – Physical Processes in Natural Waters, July, 2013, Gold Coast, Australia: <http://www.griffith.edu.au/ppnw2013>
- 2008-2009 **Chair and Organiser** – International Workshop on Evaporation from Reservoirs, Dec. 9-11, 2009, Gold Coast, Australia, <http://www.griffith.edu.au/conference/international-workshop-evaporation-from-reservoirs>
- 2004-2007 **Chair and Organiser** – 9th International Coastal Symposium, Gold Coast, Queensland, Australia, April 16-20, 2007, <http://www.griffith.edu.au/conference/ics2007/>
- 2004-2005 **Chair and Organiser** of OCSEE 05 – International Conference on Ocean/Coastal Science and Engineering Education Gold Coast, Queensland, Australia, 6-8 June, 2005
- 2012-2014 **Co-Chair and Lead Australian Coordinator** – Fourth Austral China Ocean Science & Technology Symposium (ACOST4), 2014
- 2006-2007 **Co-Chair** – Workshop entitled: Beach Drainage Technology: The Way Ahead ?, Gold Coast, Australia April 15, 2007
- 2005-2007 **Co-Chair** – Australasian Fluid Mechanics Conference, Gold Coast, Australia, Dec 3-7, 2007, <http://www.mech.uq.edu.au/16afmc/>
- 2015 Organising Committee for the 5th Conference on Geology and Geophysics (ICGG2015), July 19-21, 2015, Shanghai, China
- 2012-2016 Organising Committee, Pacific/Asia Offshore Mechanics Symposium, PACOMS-2016 Gold Coast, October 16-20, 2016
- 2012-2013 Organising Committee, National Water Education Conference, Sydney, March, 2013
- 2017 Technical Committee Member, 7th Int'l Conference on Geology and Geophysics (ICGG 2017), Jeju Island, South Korea, during July 21 to 23, 2017
- 2013 Technical Program Committee (Invited), The International Conference on Geology and Geophysics (ICGG2013), Jun. 16-18 2013 in Beijing, China
- 2012 Program Committee, International Conference on Engineering Education 2012 (ICEE 2012)
- 2010 Program Committee, International Conference on Engineering Education 2010 (ICEE 2010)
- 2009-2011 Program Committee, 4th National Water Education Conference, 2011
- 2007-2008 Program Committee, National WICD Conference in 2008
- 2004 Program Committee, Coastal Zone Asia Pacific Conference, Brisbane, September, 2004
- 2008-2009 Scientific Committee, 10th International Coastal Symposium, Gold Coast, Lisbon, Portugal, April 2009
- 2004 Scientific Committee, 15th Australasian Fluid Mechanics Conference, Sydney, Australia, December, 2004
- 1999-2000 Scientific Committee, 7th Australasian Heat and Mass Transfer Conference, Townsville, Queensland, Australia, July, 2000

INVITED CONFERENCE FIELD TRIP COORDINATOR

- 2002 Coast to Coast, Gold Coast, December, 2002

INVITED CONFERENCE SESSION CHAIR (examples only)

- 2016 International Coastal Symposium, Sydney, Australia, March 2016
- 2012 Coast to Coast Conference, Brisbane, Australia, September, 2012
- 2012 Ocean Sciences Meeting, Salt Lake City, USA, February, 2012
- 2011 Physical Processes in Natural Waters, Canada, June, 2011
- 2010 Physical Processes in Natural Waters, Iceland, June, 2010
- 2004 Estuaries and Change Conference, ECSA 37-ERF 2004 International Estuaries Conference, Ballina, June, 2004
- 2003 Coast and Ports, Auckland, New Zealand, September, 2003 (Invited)
- 2002 International Coastal Symposium, Ulster, Northern Ireland, April, 2002
- 2000 International Coastal Symposium, Rotorua, New Zealand, April, 2000

SPECIAL SESSION COORDINATOR

- 2017 Joint session proposer and co-chair for the sessions entitled “Community Engagement - Education and Outreach” and “Ocean 2 - Advances in Understanding Ocean Mixing and its Impacts” at the Australian Meteorological and Oceanographic Society (AMOS), Meteorological Society of New Zealand (MSNZ) and the Australian/New Zealand Climate Forum (ANZCF) Conference, 7 - 10 February 2017, Australian National University in Canberra
- 2016 Joint session proposer and co-chair for the session entitled “Physical, Biological and Chemical Interactions in the Ocean” for the Asia Oceania Geosciences Society (AOGS) 13th Annual Meeting, 31 July - 5 August, 2016, Beijing, China
- 2016 Joint session proposer and co-chair of the session entitled “Coasts in Crisis: Sea Level Rise and Inundation and the Drivers for Adaptation” Ocean Sciences Mtg., 21-26 February 2016, New Orleans, USA. This session was given the honour of being a whole day event with over 34 oral and poster presentations
- 2015 Session proposer and co-chair for the Asia Oceania Geosciences Society (AOGS) 12th Annual Meeting, 2-7 August, 2015, Singapore
- 2015 Joint session proposer and co-chair of the session entitled “A Review of Australian Coastal Upwelling”, AMOS National Conference 2015, 15-17 July, Brisbane Conference and Exhibition Centre Queensland, Australia
- 2015 Joint session proposer and co-chair of the session entitled “Prediction of estuarine process regime changes under system instability or evolutionary progression”, 21st International Congress on Modelling and Simulation (MODSIM2015), Gold Coast Convention and Exhibition Centre, Broadbeach, Queensland, Australia, November 29 – December 4, 2015
- 2014 Joint session proposer and co-chair of the session entitled “Coasts in Crisis: Sea Level Rise and Inundation and the Need for Adaptation” Ocean Sciences Mtg., 23-28 February 2014, Honolulu, HI, USA. This session was given the honour of being a whole day event with over 52 oral and poster presentations
- 2013 Oceanographic processes in the coastal waters: Connectivity between inland, coastal and open waters at different spatio-temporal scales, 10th Asia Oceania Geosciences Society (AOGS) annual meeting, Brisbane, Australia, June 24 - 28, 2013
- 2004 New Instrumentation Methods Session, Estuaries and Change Conference, ECSA 37-ERF 2004 International Estuaries Conference, Ballina, June, 2004

JOURNAL AND BOOK REFEREE (*examples only*)

Advances in Water Resources
Coastal Management Journal
Coastal Shelf Research
Computational Fluid Dynamics Journal
Computers and Education
CRC Press
Ecological Modelling
Environmental Fluid Mechanics (EFMC)
Environmental Technology
Estuarine, Coastal and Shelf Science (frequent)
Experimental Thermal and Fluid Science
Journal of Coastal Conservation
Journal of Coastal Research
Journal of Geophysical Research – Oceans
Journal of Hydraulic Engineering
Journal of Hydrology
Journal of Multiphase Fluid Flow
Landscape and Urban Planning
Limnology and Oceanography
Marine Geology
Marine Pollution Bulletin
Progress in Oceanography
Sedimentology
Water Resources Research

INVITED CONFERENCE PAPER REFEREE (*Examples Only*)

- 2017 ICL2017 – Teaching and Learning in a Digital World (20th International Conference on Interactive Collaborative Learning and 46th IGIP International Conference on Engineering Pedagogy), 27-29 September 2017, Aquincum Hotel, Budapest, Hungary
- 2016 27th Australasian Association for Engineering Education Conference
- 2011 International Reviewer – WACE's 17th World Conference at Drexel University, June 2011
- 2010 International Conference on Coastal Conference and Management
- 2005, 2010 International Conference on Education and Information Systems, Technologies and Applications (EISTA 2010)
- 2002, 2005 Australasian Fluid Mechanics Conference 2002 and 2005
- 2003 Coast and Ports Conference, New Zealand
- 2001 7th Australasian Heat and Mass Transfer Conference

EXTERNAL FUNDING BODY REFEREE (*Examples Only*)

- Australia-China Science and Research Fund – Joint Research Centres Round 2
- Sustainable Seas National Science Challenge, New Zealand
- National Institutes of Science and Technology, Brazil
- Qatar National Research Fund (QNRF)
- Irish Research Council
- The Netherlands Organisation for Scientific Research, Council for the Earth and Life sciences
- European Young Investigator Award Scheme (EURYI)
- Australian Research Council (ARC) College of Experts – 'expert of international standing' – Discovery Projects scheme Referee
- Australian Research Council (ARC) – Large Grant and Strategic Partnerships with Industry – Research and Training Grant Applications
- Land and Water Research Development Council (LWRDC)

ACCOMPLISHMENTS OF SERVICE

Coordinator/Officer - Internal

- 2012-2017 Griffith School of Engineering Equity Officer
- 2008-2012 Griffith School of Engineering HDR Coordinator
- 2004-2006 School of Engineering 1st Year Bachelor of Engineering Program Advisor and Coordinator
- 2004 School of Engineering Common Time Coordinator

Committee Member – External

- 2016- President of Ocean Sciences section, Asia Oceania Geosciences Society (President Elect – 2015-2016)
- 2013- Australian Association for Engineering Education
- 2011- International Coastal Symposium Board Member
- 2010- Water Education Specialist Network Committee, Australian Water Association (AWA)
- 2012-2017 International Expert Board member (and elected chair) for a proposal for the European Union on "Coasts at Threat" due to hydro-meteo events. The multinational proposal (a consortium of 18 partners, from all over Europe) is about assessing coastal vulnerability ex-ante, developing early warning systems and designing risk reduction plans
- 2012-2017 CRC Polymers Participants Committee
- 2012-2017 CRC Polymers Research and Education Advisory Committee
- 2012-2017 QIMOS (Queensland Node - Integrated marine Observation System) Reference Group Member
- 2010-2014 Australian Judge for the Australian Stockholm Junior Water Prize (AWA)
- 2009-2013 University Project Committee, Australian Water Association (AWA).
- 2005-2006 Queensland Work Integrated Learning Steering Group
- 2005-2006 Community Liaison Group – Helensvale Reservoir Upgrade
- 2004-2006 Regional Water Sensitive Design Working Group Committee Member
- 2004-2005 Australian Water Association Queensland Branch Technical Committee Member
- 2004-2005 Australian Water Association Queensland Branch Awards Committee Member

Committee Member - Internal

- 2014-2017 Griffith School of Engineering Research Committee
- 2014-2017 Griffith School of Engineering Learning and Teaching Committee
- 2013-2017 Local Issues Group, Griffith University – Gold Coast Campus
- 2012-2017 PRO Teaching Reference Group Committee
- 2012-2014 Science, Environment, Engineering and Technology (SEET) Group Promotions Committee (elected)
- 2012 Centre for Infrastructure Engineering & Management grant scheme Committee
- 2011-2012 Chair: Griffith School of Engineering Learning and Teaching Committee
- 2011-2012 SEET Learning & Teaching Citations and Grants Selection Panel
- 2009-2010 SEET Health and Safety Committee
- 2008-2010 SEET Group Learning and Teaching Committee
- 2008-2010 SEET Group Research Committee
- 2008-2017 CSSGS
- 2008 Faculty EIT Committee
- 2007-2010 Science, Environment, Engineering and Technology (SEET) Group Promotions Committee (elected)
- 2006-2010 Griffith University Representative for the South East Queensland Node of the bid for the National Collaborative Research Infrastructure Strategy (NCRIS) Roadmap – the Integrated Marine Observing System (IMOS)
- 2007 GURG/NRG panel member – Combined Mathematics, Information & Communication Sciences, Engineering and Environmental Sciences and Physics, Chemistry and Geoscience Panel (MIC-PCG-EES) panel
- 2006 Postgraduate Coursework Review sub-committee for the Engineering PG Coursework Program
- 2006 Griffith School of Engineering Working Party for Research
- 2006 Griffith School of Engineering Working Party for Resources and Equipment
- 2005-2006 Science and Technology Group Environmental and Civil Working Group of The Engineering Sub-Group
- 2004-2010 Research Ethics Advisor for the School of Engineering
- 2004-2004 Regional Water Sensitive Design Working Group Committee Member
- 2003-2006 Gold Coast Campus Health and Safety Committee
- 2001-2005 School of Engineering Board

- 2005 Selection Panel for continuing and fixed term positions as Learning Adviser, Learning Services, Griffith Univ.
- 2005 Faculty of Engineering and Information Technology Common Course Working Party on Professional Practice
- 2004, 2006 Engineering and Environmental Science Internal Grant Assessment Panel Member
- 2003-2017 Chairperson of Examiners (various)
- 2001 School of Engineering WWW Site Coordinator/Manager
- 1998 Member – Engineering, Earth and Applied Sciences Assessment Panel (ARC Small, Griffith University Research Scheme and Griffith University Infrastructure Scheme Grants)
- 1998-2000 Member – Bachelor of Coastal Engineering Degree – Program Planning Team
- 1998-2000 Member and School of Engineering Representative – Griffith Institute for Higher Education's (GIHE) Flexible Learning Liaison Group (FLLG)
- 1998-1999 Member – Working Group on Flexible Delivery – Faculty of Engineering
- 1997 Chair – Bachelor of Engineering in Civil Engineering Program Review Committee
- 1997-1998 Member – Master of Engineering Management – Program Planning Team
- 1997-1998 Member – Bachelor of Engineering in Civil Engineering (Coastal Engineering Major) – Program Planning Team

Centre Member

- 1998- Griffith Centre for Coastal Management (Associate Member and now Adjunct)
- 2016-2017 Cities Research Centre
- 2014-2017 Griffith School of Engineering Research Centre (Theme Leader)
- 2006-2017 Australian Rivers Institute (Associate member)
- 2004-2013 Centre for Infrastructure Engineering and Management (Full member – acted as Deputy Director)
- 2003-2006 Centre for Aquatic Processes and Pollutants (Associate Member)
- 1999-2006 CRC for Coastal Zone, Estuary and Waterway Management
- 1998-2000 Griffith University Centre for Integrated Environmental Protection

Griffith University External Representative

- 2011-2012 Engineering Associate Dean (Learning and Teaching)
- 2011 Invited to attend Sunshine Coast University, Engineering Research Forum
- 2007 Invited to represent Griffith University at the Innovative Research Universities Australia, Forum on Leadership of Learning and Teaching, Macquarie University, 28-29 June 2007

External Assessor

- 2016 Review of the Bachelor of Engineering (Civil Engineering) (Honours), College Of Engineering and Science, Victoria University
- 2007 James Cook University's Research Quality and Impact Audit (RQIA)
- 2007 IRUA RQF Context Statement Reviewer

Expert Panel Member

- 2004-2006 South East Queensland Water Sensitive Design Panel
- 2000 Gold Coast Water – Water Treatment Plant Review

External Advice

- 2011 Pumestone Passage Technical Working Group – supplied advice to the committee
- 2007-2010 Expert Witness for the Queensland Police Department – reviewed, examined and reported on significant incident

Visiting Scientist (to Griffith University) Arrangement – examples only

- 2015, 2016 Professor Duncan Mara, Leeds University
- 2013 Professor Gavin Birch, University of Sydney
- 2013 Dr George Creswell, CSIRO
- 2012 Professor Mitsuyo Kishida, Director, Division of International Joint Education Global Joint Education Center for Science and Technology, Graduate School of Science and Technology, Kumamoto University
- 2012 Professor Yasunori Kawagoshi, Department of Civil & Environmental Engineering, Faculty of Engineering, Kumamoto University

- 2012 Professor Fumihiko Yamada, Department of Civil & Environmental Engineering, Faculty of Engineering, Kumamoto University
- 2012 Associate Professor Akira Sato, Department of Civil & Environmental Engineering, Faculty of Engineering, Kumamoto University
- 2012 Assistant Professor Sota Nakajo, Department of Civil & Environmental Engineering, Faculty of Engineering, Kumamoto University
- 2012 Associate Professor Joachim Ribbe, University of Southern Queensland (Coastal modelling)
- 2010 Dr. Katy Hill, IMOS Scientific Officer, Integrated Marine Observing System, University of Tasmania
- 2009 Professor Andrew Cooper, Centre for Coastal and Marine Research, University of Ulster (recipient of the Griffith Climate Change Response Program Visiting Fellowship Program)
- 2009 Professor Yamada Fumihiko, Kumamoto University (Coastal and River Engineering)
- 2009 Professor Tsujimoto Gozo, Kobe City College (Coastal Engineering)
- 2009 Associate Professor Kakinoki Tetsuya, Kobe City College (Coastal Engineering)
- 2009 Assistant Professor Tanaka Kenji, Kumamoto University (Meteorology, Hydrology)
- 2007 Professor Andrew Cooper, Centre for Coastal and Marine Research, University of Ulster (recipient of the Griffith University Short Term Visiting Fellowship Scheme)
- 2007 Dr Larry Hildebrand, Sustainable Communities and Ecosystems, Strategic Integration Office, Environment Canada-Atlantic, Canada
- 2007 Dr Syed Khalil, Coastal Engineering Division, Louisiana Department of Natural Resources, USA
- 2007 Dr John Middleton, South Australian Research and Development Institute (Aquatic Sciences), Australia
- 2007 Professor Andrew Short, School of Geosciences, University of Sydney, Australia
- 2007 Dr Macarena Tejada Tejada, Area de Geografía Física, Universidad Pablo de Olavide, Spain (collaborative work on beach carrying capacity – 2 month visit)
- 2006 Associate Professor Kevin Parnell, James Cook University
- 2006 Associate Professor Ron Cox, Director of Manly Hydraulics Laboratory, University of New South Wales
- 2005, 2007 Professor Gonzalo C. Malvárez, Universidad Pablo de Olavide, Spain – Seminar presentation, undergraduate class special lecture and collaborative research activities
- 2004, 2005 Dr Tim Smith, Senior Research Scientist, Resource Governance Group, CSIRO Sustainable Ecosystems
- 2004 Professor Carlos Pereira da Silva, Departamento de Geografia e Planeamento Regional, Universidade Nova de Lisboa, F.C.S.H., Portugal
- 2002 Dr Diane Horn, Senior Lecturer in Physical Geography, School of Geography, Birkbeck University of London
- 2002 Professor Andrew Barry (support by a Sir Allan Sewell Visiting Fellowship Award, which was applied for in conjunction with Dr Dong Jeng)
- 2000 Associate Professor Steven Armfield, School of Aerospace, Mechanical and Mechatronic Engineering, Sydney University

Some Additional Activities while at Griffith University

- 2013 Invited to present at the Marine Teachers Association of Queensland - 2013 conference. Presented a talk entitled Marine Science a multi-discipline approach
- 2007 Presented at a session on 'Linkage Grant Success' hosted by the PVC – SEET. 'Writing a thesis in the sciences' for Griffith Graduate Research School
- 2006-2007 Presented at a session on 'Writing a thesis in the sciences' for Griffith Graduate Research School
- 2006 Presenter of a session on ARC Success for the Centre for Infrastructure Engineering & Management 2006 Retreat
- 2006 Presenter and Panel Member for Griffith School of Engineering Promotions Seminar
- 2006 Student / Supervisor Panel Member – RHD Induction Program – Monday 20 March – Gold Coast campus
- 2002 Griffith University Representative at Somerset College Graduation Evening
- 2002 Presenter as 2002 Gold Coast Water Evening
- 1999 School representative and presenter at Gold Coast Waterwatch Caring for Catchment Day
- 1998- Representative at School Student Days
- 1997- Representative at University Open Days
- 1997 Officer responsible for Evaluation of Flexible Delivery Course Undertaken by Gold Coast Engineering Students. Recommendations of Changes to Existing Program Structure

SELECTED ACCOMPLISHMENTS OF SERVICE TO DEAKIN UNIVERSITY

Committee Member

Member Faculty Board, Faculty of Science and Technology, Deakin University
Faculty of Science and Technology Research Committee, Deakin University
Research and Development Training Focus Group – (with Ernst and Young)
Research and Development Committee, School of Engineering and Technology
School Board, School of Engineering and Technology, Deakin University
Course Committee, School of Engineering and Technology, Deakin University
Marine Science Development Committee, Deakin University
Deakin Collaborative Environmental Research Group

Selection Officer Bachelor of Technology (Coastal Resource Management)
Bachelor of Engineering/Technology (Environmental) deputy

External Liaising Barwon Water, Geelong, Victoria
Corangamite Salinity Forum, Victoria
Department of Natural Resources and Environment, Victoria
Environmental Protection Authority, Victoria
Flora, Fauna and Fisheries, Colac, Victoria
Marine and Freshwater Research Institute, Victoria
Precision Measurement Engineering, USA
THIESS Environmental Consultants, Victoria

REFEREES

Professor M. R. Phillips, BSc, PGCE, MSc, PhD, MIEEnvSc, FRGS
Pro Vice-Chancellor (Research, Innovation, Enterprise and Commercialisation)
Dirprwy Is-Ganghellor (Ymchwil, Arloesi, Mentergarwch a Masnach)
University of Wales Trinity Saint David
Prifysgol Cymru Y Drindod Dewi Sant
Mount Pleasant, Mount Pleasant
Swansea, Abertawe
Wales, Cymru, UK
SA1 6ED
Tel / Ffon: +44 (0)1792 481072
Email / Eboost: mike.phillips@uwtsd.ac.uk

Relationship to the referees: Colleague who works in similar field

Why they have been nominated to speak on the candidate's behalf: Professor Phillips was nominated because he is a specialist in coastal systems and holds significant on-going experience in senior management positions at the University level. Professor Phillips has an international research profile which has resulted in his participation in interdisciplinary research projects, advisory boards, government consultancies, and international and national policy making. He is a member of the Institution of Environmental Sciences, Royal Geographical Society, Coastal Education and Research Foundation, Coastal Zone Canada Association and the European Union of Coastal Conservation.

Professor Andrew Cooper
Professor of Coastal Studies
School of Environmental Sciences
Room G1116
Ulster University
Campus: Coleraine, UK
Tel: 028 701 24429
Email jag.cooper@ulster.ac.uk

Relationship to the referees: Long term colleague

Why they have been nominated to speak on the candidate's behalf: Nominate because Professor Cooper is a highly experienced researcher and leader in earth science/physics with over 30 years experience in coastal geomorphology, sedimentology and coastal management. He is the Professor of Coastal Studies at Ulster University and Director of the Centre for Coastal and Marine Research and of the Centre for Maritime Archaeology. He was chair of the Northern Ireland Coastal and Marine Forum for 6 years and a fellow of the Royal Society of South Africa.

Professor Steve Armfield
School of Aerospace, Mechanical and Mechatronic Engineering
University of Sydney
Sydney 2006
Australia
ph (02)351-2927
fax (02)351-3760
e-mail: armfield@eromech.usyd.edu.au

Relationship to the referees: Long term colleague

Why they have been nominated to speak on the candidate's behalf: Nominated as a result of his recognised international expertise in environmental fluid dynamics and has large University school management experience in the Australian context. Professor Armfield was the Head of School, School of Aerospace, Mechanical and Mechatronic Engineering, University of Sydney from 2008-2015 and a member of the College of Experts, Australian Research Council, from 2012-2014.