

## *Curriculum Vitae* Assoc Prof Stephen Gallagher

### **CURRENT POSITION: Associate Professor & Reader (Level D)**

**School of Earth Sciences, The University of Melbourne**

**STATUS: continuing (tenured)**

### **QUALIFICATIONS**

PhD University College Dublin Ireland, 1988-1992.

BSc (Hons) University College Dublin Ireland, 1984-1988

### **AWARDS**

2018 PEPS Most Cited Paper Award 2018 for *Progress in Earth and Planetary Science*, Gallagher et al., 2015, a Japan Geophysical Union Journal

2017 Most Accessed Paper Award 2017 for *Progress in Earth and Planetary Science*, Gallagher et al., 2015, a Japan Geophysical Union Journal

2006 Austin B. Edwards Medal (Holdgate, Wallace, Gallagher et al. Best economic geology paper in Australian Journal of Earth Sciences 2006)

2004 University of Melbourne, David White Award for excellence in teaching

2003 University of Melbourne, Faculty of Science award for Excellence in Teaching.

### **ACADEMIC APPOINTMENTS**

2008- **Associate Professor & Reader** - Melbourne University, School of Earth Sciences

2002-2007 **Senior Lecturer C** - Melbourne University, School of Earth Sciences

1997-2001 **Lecturer B** - Melbourne University, School of Earth Sciences made tenured from **2000**.

1993-1996 **Lecturer A** - Melbourne University, School of Earth Sciences.

1998-1991 **Research Demonstrator in Geology** - University College Dublin, Ireland Geology Department

*Responsibilities:* >200 hours per annum demonstrating duties and teaching geology in the field and laboratory

### **OTHER APPOINTMENTS:**

1991-1993 **Micropalaeontologist** - Geochem Group Ltd., Chester, England.

*Responsibilities:* Consulting for the petroleum industry. I completed reports on oil wells, based on detailed microfossil dating (using foraminifera, ostracods, radiolarians, diatoms and other microfossil components) in petroleum exploration samples of Jurassic to Tertiary sequences from the UK North Sea, the UK Central Graben, Norwegian North Sea, the Pattani Basin, Thailand and the Niger Delta.

1990-1991 **Part-time consultant** - Conodate Ltd. Dublin, Ireland.

*Responsibilities:* Micropalaeontology Consulting for the mining industry. Using foraminifera & algae to date Carboniferous limestone samples from mineral exploration boreholes in onshore Ireland.

### **Evidence in relation to research impact and contributions to the field**

Stephen has organised four prestigious Selwyn symposia for the Geological Society of Australia, Victoria Division. In the last few years he has been invited to give research seminars and short courses to CSIRO and the PESA. He is a member of GSA, AGU, Cushman Foundation (patron), British Micropalaeontological Soc, PESA & SEPM.

National & State Professional Society committees

2005 Vice-Chair of the Geological Society of Australia Victorian Division.

2006-2008 Chair of the Geological Society of Australia Victorian Division.

2008-2009 Treasurer of the Geological Society of Australia Victorian Division.

2006-2008 Councillor of the Executive Division of the Geological Society of Australia.

2005, 2007, 2008 & 2009 Selwyn Symposium convener/organiser.

**International and National Science committees and invited talks**

2008-2010 IODP (International Ocean Discovery Program) SSEP (Science Survey and Evaluation Panel) member & ANZIC (Australian and New Zealand Consortium) representative (International) and member of the governing councils.

2008-2009 ANZIC Science Committee member.

2009 Host for the 13th SSEP meeting November 2009

2009-2014 Chair of the ANZIC Science Committee/Member of the Governing Council

2010 Coordinator of the Australasian White Paper submission for INVEST IODP Planning meeting, Bremen

September 2009. A planning document with submissions from 70 scientists.

2011 ANZIC IODP Alternate for IODP Science planning Committee, Sendai, Japan.

2011 Workshop Convener for IODP Workshop on the Indian Ocean in Goa, India (October 2011) and author on Workshop report, Eos and Scientific drilling publications:

2012 Workshop Convener for IODP Workshop on the SW Pacific in Sydney (October 2012) and author on Workshop report

2012 IGC Brisbane symposium convenor on 23.11 Cenozoic marine environments 5-10th August

2013 ANZIC IODP Representative at IOPAC Bali June 2013.

2014 7th-11th July, AESC Newcastle, IODP session chair.

2014- 4<sup>th</sup> December, invited lecturer (Marine Biosphere connections) at ANZIC student Master class Workshop in Perth Western Australia.

2016-2018 IODP Facilities Science Board member: a major European scientific committee.

2016 Member of international review panel for Expedition 357 Atlantis Massif (Bremen, Germany)

2016 Invited speaker at AESC in Adelaide

2016 Invited speaker at AOGS in Beijing

2016 Invited speaker at UCD Ireland

2017 Invited Plenary Speaker at ANZIC IODP Workshop, June 2017.

2017 Invited speaker at Pages Monsoon Workshop, September 2017

2017 Invited speaker at PESA Vic/Tas Meeting, Melbourne, 16<sup>th</sup> August

2018 Member of international review panel for IODP Expedition 381 Corinth Active Rift (den Haag)

2019 27<sup>th</sup> June- Howitt Geological society of Australia/Royal Society of Victoria talk

2019 September Invited talk on IODP at ICP13

**Research expeditions & International Ocean Discovery Program Proposals:**

1996 Field researcher on ASAC proposal 884 Palaeontology and Palaeoenvironment of the Marine Plain area (Vestfold Hills) in the Pliocene. Summer Antarctic Research expedition.

1998 RV Franklin Bass Canyon expedition FR11/98

2012 Proponent on IODP Drilling proposal 793 CPP2 to drill the Arabian Sea = Exp. 355

2012 Chief proponent on IODP Drilling proposal 807 Full = Exp 356

2013 Foram specialist on IODP Expedition 346 Asian Monsoon

2013 Proponent on 830 APL to drill the Scott Plateau off Northwest Australia

2014 Proponent on 871-Pre Great Australian Bight drilling proposal.

2015 Co-chief scientist on Expedition 356 The Indonesian Throughflow

2017 Proponent and shipboard scientist on R/V Sonne expedition SO-257  
2017 Proponent on 926-Pre Great Australian Bight proposal  
2019 CAPSTAN INST2019\_01 Southern Investigator Hobart-Fremantle, CAPSTAN Trainer

2011-Workshop Convener for IODP Workshop on the Indian Ocean in Goa, India (October 2011) and author on Workshop report, *Eos* and *Scientific drilling* publications:  
Exon, N. Pandey, D and **Gallagher, S., 2012**, Scientific drilling in the Indian Ocean: Indian Ocean IODP Workshop; Goa, India, 17–18 October 2011. *EOS* v. 93 (7), p. 70.  
2012-Workshop Convener for IODP Workshop on the SW Pacific in Sydney (October 2012) and author on Workshop report  
Exon, N., **Gallagher, S.** and Seton, M. **2013**, Scientific drilling in the Southwest Pacific Ocean: Southwest Pacific Ocean IODP Workshop; Sydney, Australia, 8–11 October 2012. *EOS* v. 94 (10), p. 101.

#### AWARDS

2017 Most Accessed Paper award 2017 for *Progress in Earth and Planetary Science*, Gallagher et al., 2015, a Japan Geoscience Union Journal

2006 Austin B. Edwards Medal (Holdgate, Wallace, Gallagher et al. Best economic geology paper in Australian Journal of Earth Sciences 2006).

2004 University of Melbourne, David White Award for excellence in Teaching.

2003 Univ of Melbourne, Faculty of Science award for Excellence in Teaching.  
Stephen is an ARC International Expert Reader

Stephen has been an assessor for funding agencies such as the National Environment Research Council, UK, Australian Biological Study Grants, Antarctic Science Advisory Council Grants.

Since 2003, he has performed dozens of external reviews for journals such as: Geological Society of London, Sedimentary Geology, Palaios, Marine Micropaleontology, Micropaleontology, P3, Hydrobiologica, Global & Planetary Change, G3, Asian Journal of Earth Sciences, Quaternary Research, QSR, Australian Journal of Earth Sciences and many others. Petroleum industry Journal related reviews for WABS and EABS.

Associate Professor Stephen Gallagher is a reader at the School of Earth Sciences the University of Melbourne. His research focusses the use of (micro)fossils and sediments to interpret ancient marine environments and to establish their age. In the last few years he has been on two International Ocean Discovery Program expeditions. He was an invited scientist on an expedition to the Japan Sea in 2013 and co-chief scientist on another expedition in 2015 off Northwest Australia. He has published over 100 publications including 80 journal papers, 12 book chapters and dozens of major reports. He was chair of the Geological Society of Australia Victoria division from 2006 to 2008.

#### ADVANCEMENT OF DISCIPLINE

100 publications (8 books, 12 book chapters, 80 Journal papers).

## Books & major reports

18. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Site 1464. Proceedings of the IODP 356, 1-45. [dx.doi.org/10.14379/iodp.proc.356.109.2017](https://doi.org/10.14379/iodp.proc.356.109.2017)
17. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Site 1463. Proceedings of the IODP 356, 1-51. [dx.doi.org/10.14379/iodp.proc.356.108.2017](https://doi.org/10.14379/iodp.proc.356.108.2017)
16. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Site 1462. Proceedings of the IODP 356, 1-52. [dx.doi.org/10.14379/iodp.proc.356.107.2017](https://doi.org/10.14379/iodp.proc.356.107.2017)
15. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Site 1461. IODP 356, 1-65. [dx.doi.org/10.14379/iodp.proc.356.106.2017](https://doi.org/10.14379/iodp.proc.356.106.2017)
14. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Site 1460. Proceedings of the IODP 356, 1-31. [dx.doi.org/10.14379/iodp.proc.356.105.2017](https://doi.org/10.14379/iodp.proc.356.105.2017)
13. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Site 1459. Proceedings of the IODP 356, 1-41. [dx.doi.org/10.14379/iodp.proc.356.104.2017](https://doi.org/10.14379/iodp.proc.356.104.2017)
12. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Site 1458. Proceedings of the IODP 356, 1-7. [dx.doi.org/10.14379/iodp.proc.356.103.2017](https://doi.org/10.14379/iodp.proc.356.103.2017)
11. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Expedition 356 Methods. Proceedings of the IODP 356, 1-37. [dx.doi.org/10.14379/iodp.proc.356.102.2017](https://doi.org/10.14379/iodp.proc.356.102.2017)
10. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2017**. Expedition 356 Summary. Proceedings of the IODP 356, 1-43. [dx.doi.org/10.14379/iodp.proc.356.101.2017](https://doi.org/10.14379/iodp.proc.356.101.2017)
9. **Gallagher, S.J.**, Fulthorpe, C.S., Bogus, K.A. and Expedition 356 Scientists, **2015**. Expedition 356 Preliminary Report: Indonesian Throughflow. International Ocean Discovery Program. [10.14379/iodp.pr.356.2015](https://doi.org/10.14379/iodp.pr.356.2015)
8. **Gallagher, S.J.**, Fulthorpe, C.S., and Bogus, K.A., **2014**. Reefs, Oceans, and Climate: a 5 million year history of the Indonesian Throughflow, Australian monsoon, and subsidence on the Northwest Shelf of Australia. *International Ocean Discovery Program Scientific Prospectus*, 356. [doi.org/10.14379/iodp.sp.356.2014](https://doi.org/10.14379/iodp.sp.356.2014)
7. Expedition 346 Scientists, **2014**. Asian Monsoon: onset and evolution of millennial-scale variability of Asian monsoon and its possible relation with Himalaya and Tibetan Plateau uplift. *Integrated Ocean Drilling Program Preliminary Report*, 346. [doi:10.2204/iodp.pr.346.2014](https://doi.org/10.2204/iodp.pr.346.2014)
6. Norvick, M.S. & **Gallagher, S.J.** (editors) **2009**, Origin of the Australian Highlands, Selwyn Symposium of the GSA Victoria Division, September 2009, Geological Society of Australia Extended Abstracts No. 94, 88pp. ISSN 0729 011X
5. **Gallagher, S.J.** & Wallace M. W. (editors) **2008**, Neoproterozoic extreme climates and the evolution of early metazoan life, Selwyn Symposium of the GSA Victoria Division, September 2008, Geological Society of Australia Extended Abstracts No. 91, 71pp. ISSN 0729 011X
4. Cupper, M.L. & **Gallagher, S.J.** (editors) **2007**, Climate change or human impact? Australia's megafaunal extinction, Selwyn Symposium of the GSA Victoria Division, September 2007, Geological Society of Australia Extended Abstracts No. 79, 65pp. ISSN 0729 011X
3. McGowran, B., Holdgate, G.R., Li, Q. and **Gallagher, S.J.**, **2002**. Cenozoic stratigraphic succession in the sedimentary basins of southeastern Australia. First International Palaeontological Congress, Australasian Association of Palaeontologists and Macquarie University Center of Ecostratigraphy and Palaeobiology, Excursion Guide, Cenozoic of Southern Australia, 45pp. ISBN 1 876125 30 6.
2. **Gallagher, S.J.**, and Holdgate, G.R., **1996**, Sequence stratigraphy and biostratigraphy of the onshore Gippsland Basin, S.E. Australia: Melbourne, Geological Society of Australia, 1-70 p. ISSN 0815-1172.

1. **Gallagher, S. J.** (editor) **1996**. Gippsland Basin Symposium '96 (Stratigraphy, Hydrogeology, Seismic Analyses, Hydrocarbon Plays, Prospects and Developments) University of Melbourne, 39pp. ISBN 0 7325 1471.

### **Book Chapters**

12. **Gallagher, S.J., 2017**. Indonesian Throughflow: A 5-million-year history of the Indonesian Throughflow Current, the Australian Monsoon and subsidence on the Northwest Shelf of Australia: IODP Expedition 356, in, Exon, N., ed., *Exploring the Earth under the Sea* (Australian National University Press), p. 152-155. [doi.org/10.22459/EEUS.10.2017](https://doi.org/10.22459/EEUS.10.2017) ISBN: 9781760461454
11. **Gallagher, S.J., 2017**. A study of the Asian Monsoon in the Japan Sea: IODP Expedition 346, in, Exon, N., ed., *Exploring the Earth under the Sea* (Australian National University Press), p. 122-124. [doi.org/10.22459/EEUS.10.2017](https://doi.org/10.22459/EEUS.10.2017) ISBN: 9781760461454
10. Hubble, T., Webster, J., Yu, P., Fletcher, M., Voelker, D., Airey, D., Clarke, S., Puga-Bernabeu, A., Mitchell, D., Howard, F., **Gallagher, S.J.** and Martin, T., **2016**. Submarine Landslides and Incised Canyons of the Southeast Queensland Continental Margin, in, Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., Moscardelli, L., Mueller, C., Pecher, I., Woetz, S., eds., *Submarine Mass Movements and their Consequences* (Springer International Publishing), 125-134. [doi.org/10.1007/978-3-319-20979-1\\_12](https://doi.org/10.1007/978-3-319-20979-1_12) ISBN 978-3-319-20978-4
9. McLaren, S.N., Wallace, M.W., **Gallagher, S.J.** and Wagstaff, B.E., Tosolini, A-M, P. **2014**, Chapter 12, The development of a climate – an arid continent with wet fringes, in, Prins, H. & Gordon, I. eds., *Invasion Biology and Ecosystem Theory* (Cambridge University Press), 256-280 ISBN: 9781107035812
8. Boyd, G.A., Wallace, M.W., Holdgate, G.R., and **Gallagher, S.J., 2004**, Marine clays and porosity evolution in the Nullawarre Greensand, Otway Basin, southeastern Australia, in Boulton, P.J., Johns, D.R., and Lang, S.C., eds., Petroleum Exploration Society of Australia Special Publication, vol.2, p. 537-552.
7. **Gallagher, S.J.**, Duddy, I.R., Quilty, P.G., Smith, A.J., Wallace, M.W., Holdgate, G.R., and Boulton, P.J., **2004**, The use of foraminiferal colouration index (FCI) as a thermal indicator and correlation with vitrinite reflectance in the Sherbrook Group, Otway Basin, Victoria, in Boulton, P.J., Johns, D.R., and Lang, S.C., eds., Petroleum Exploration Society of Australia Special Publication, vol.2, p. 642-653.
6. Holdgate, G.R., Cunningham, K.A., Wallace, M.W., **Gallagher, S.J.**, and Moore, D.H., **2004**, Tertiary deep lead palaeoriver systems and their relationship to basin evolution, Victoria, in Boulton, P.J., Johns, D.R., and Lang, S.C., eds., Petroleum Exploration Society of Australia Special Publication, vol.2, p. 707-724.
5. Holdgate, G.R., and **Gallagher, S.J., 2003**, Tertiary a period of transition to marine basin environments, in W.D., Birch, ed., Geology of Victoria, Volume Special Publication 23: Melbourne, Geological Society of Australia (Victoria Division), p. 289-335.
4. Boyd, G.A., and **Gallagher, S.J., 2001**, The sedimentology and palaeoenvironments of the Late Cretaceous Sherbrook Group in the Otway Basin, in Hill, K.C., and Bernecker, T., eds., Petroleum Exploration Society of Australia Special Publication, vol.1: Sydney, Petroleum Exploration Society of Australia, p. 475-483.
3. **Gallagher, S.J., 1997**, The use of multivariate statistics to determine the paleoenvironmental distribution of Lower Carboniferous Foraminifera from Ireland, Special Publications - Cushman Foundation for Foraminiferal Research, vol.36: Ithaca, Cushman Foundation for Foraminiferal Research, p. 41-46.
2. Holdgate, G., and **Gallagher, S., 1997**, Microfossil paleoenvironments and sequence stratigraphy of Tertiary cool-water carbonates, onshore Gippsland Basin, southeastern Australia, in James, N.P., and Clarke, J.A.D., eds., Special Publication - SEPM (Society for

Sedimentary Geology), vol.56: Tulsa, SEPM (Society for Sedimentary Geology), p. 205-220.

1. **Gallagher, S.J., 1996**, The stratigraphy and cyclicity of the late Dinantian platform carbonates in parts of southern and western Ireland, in Strogon, P., Somerville, I.D., and Jones, G.L., eds., Geological Society London Special Publications, Volume 107: London, Geological Society of London, p. 239-251.

### **IODP Meeting Reports**

1. Exon, N. Pandey, D and **Gallagher, S., 2012**, Scientific drilling in the Indian Ocean: Indian Ocean IODP Workshop; Goa, India, 17–18 October 2011. *EOS* v. 93 (7), p. 70.
2. Exon, N., **Gallagher, S.** and Seton, M. **2013**, Scientific drilling in the Southwest Pacific Ocean: Southwest Pacific Ocean IODP Workshop; Sydney, Australia, 8–11 October 2012. *EOS* v. 94 (10), p. 101.

### **Refereed Conference publication**

1. Schmidt, R. and **Gallagher, S.J. 2014**. Front row seats to the Ice Age: Oligocene Bryozoa from a core on the south-eastern Australian Shelf. *Studi Trenti di Scienze Naturali*, v. 94, 223-227. ISSN 203507699.

### **International peer-reviewed Journal Articles**

80. Auer, G., De Vleeschouwer, D., Smith, R., Bogus, K.A., Groeneveld, J., Grunert, P., Castañeda, I., Patrick, B., Christensen, B.A., Fulthorpe, C.S., **Gallagher, S.J.**, Henderiks, J., **2019 in press 21<sup>st</sup> March**. Timing and pacing of Indonesian Throughflow restriction to Late Pliocene climate shifts. *Paleoceanography and Paleoclimatology*,
79. Morón, S., Cawood, P.A., Haines, P.W., **Gallagher, S.J.**, Zahirovic, S., Lewis, C. and Moresi, L., **2019 in press 14<sup>th</sup> March**. Long-lived transcontinental sediment transport pathways of East Gondwana, *Geology*
78. **Gallagher, S.J.** and deMenocal, P.B., **2019**. Finding dry spells in Ocean Sediments. *Oceanography* v. 32 (1), 38-41. <https://doi.org/10.5670/oceanog.2019.120>
77. Ishiwa, T., Yokoyama, Y., Reuning, L., McHugh, C.M., De Vleeschouwer, D., **Gallagher, S.J. 2019**, Australian summer monsoon variability in the past 14,000 years revealed by IODP Expedition 356 sediments, *Progress in Earth and Planetary Science* v. 6, 1-17 [doi.org/10.1186/s40645-019-0262-5](https://doi.org/10.1186/s40645-019-0262-5)
76. Saavedra-Pellitero, M., Baumann, K-H, **Gallagher, S.J.**, Sagawa, T. and Tada, R., **in press 3 January 2019**. Paleoceanographic evolution of the Japan Sea over the last 460 kyr - a coccolithophore perspective. *Marine Micropalaeontology* v., doi: [10.1016/j.marmicro.2019.01.001](https://doi.org/10.1016/j.marmicro.2019.01.001)
75. Sadler, T., Holmes, F.C. and **Gallagher, S.J., 2019**. Two new species of the echinoid genus *Monostychia* from the Miocene of Victoria and a redescription of *M. etheridgei* Tenison-Woods, 1877. *Alcheringa* v. doi.org/10.1080/03115518.2018.1528508
74. Keep, M., Holbourn, A., Kunht, W. and **Gallagher, S.J., 2018**. Progressive Western Australian collision with Asia: implications for regional orography, oceanography, climate and marine biota. *Journal of the Royal Society of Western Australia* v.101, 1-17.
73. **Gallagher, S.J.**, Reuning, L., Himmler, T., Henderiks, J., De Vleeschouwer, D., Groeneveld, J., Rastigar, A., Fulthorpe, C.S., Bogus, K. and Expedition 356 Shipboard Scientists, **2018**. The enigma of rare Quaternary oolites in the Indian and Pacific Oceans: a result of global oceanographic physicochemical conditions or a sampling bias. *Quaternary Science Reviews*, v. 200, 114-122, doi. [10.1016/j.quascirev.2018.09.028](https://doi.org/10.1016/j.quascirev.2018.09.028)
72. De Vleeschouwer, D., Auer, G., Smith, R., Bogus, K.A., Christensen, B.A., Groeneveld, J., Patrick, B., Henderiks, J., Castañeda, I., O'Brien, E., Ellinghausen, M., Renema, W., Reuning, L., Ishiwa, T., McHugh, C.M., **Gallagher, S.J.** and Palike, H., **2018**. The

- amplifying effect of Indonesian Throughflow heat transfer on Late Pliocene southern Hemisphere climate cooling. *Earth and Planetary Science Letters*, v. 500, 15-27 doi. 10.1016/j.epsl.2018.07.0350012-821X
71. Tagliaro, G., Fulthorpe, C.S., **Gallagher, S.J.**, McHugh, C.M., Kominz, M., Lavier, L.L., **2018**. Neogene siliciclastic deposition and climate variability on a carbonate margin: Australian Northwest Shelf, *Marine Geology*, v. 403, 285-300. doi.org/10.1016/j.margeo.2018.06.007
  70. **Gallagher, S.J.**, Sagawa, T., Henderson, A., Saavedra-Pellitero, M., De Vleeschouwer, D., Li, Black, H., Itaki, T., Toucanne, S., Bassetti, M-A., Clemens, S., Anderson, W., Alvarez-Zarikian, C., and Tada, R., **2018**. East Asian monsoon history and paleoceanography of the Japan sea over the last 460,000 years. *Paleoceanography and Paleoclimatology* v. 33, 683-702. doi: 10.1029/2018PA003331
  69. Korasidis, V.A., Wagstaff, B.E., McCaffrey, J., Wallace, M.W., Fletcher. M-S., Rastogi, S., **Gallagher, S.J.** and Allan, T., **2018**. New age controls on Oligocene and Miocene sediments in southeast Australia. *Review of Palaeobotany and Palynology*, v. 256, 20-31. doi: <https://doi.org/10.1016/j.revpalbo.2018.05.003>
  68. Tosolini, A-M., Korasidis, V., Wagstaff, B.E., Cantrill, D. J., **Gallagher, S.J.** and Norvick, M., **2018**. Palaeoenvironments and palaeocommunities from Lower Cretaceous highlatitude sites, Otway Basin, southeastern Australia, *Palaeogeography, Palaeoclimatology, Palaeoecology* v. 496. 62-84.
  67. Frieling, J., Huurdeman, E. P., Rem, C.C.M., Donders, T. H., Pross, J., Bohaty, S. M., Holdgate, G. R., **Gallagher, S. J.**, McGowran, B. and Bijl, P. K. **2018**. Identification of the Paleocene-Eocene boundary in coastal strata in the Otway Basin, Victoria, Australia, *Journal of Micropalaeontology*, 37, 317-339. doi.org/10.5194/jm-37-1-2018
  66. Sagawa, T., Nagahashi, Y. Satoguchi, Y., Holbourn, A., Itaki, T., **Gallagher, S.J.**, Saavedra-Pellitero, M., Ikehara, K., T. Irino, T. and Tada, R. **2018**, Integrated tephrostratigraphy and isotope stratigraphy in the Japan Sea and East China Sea using IODP Sites U1427, U1426 and U1429, Expedition 346 Asian Monsoon, *Progress in Earth and Planetary Science* v. 5, 18, doi. 10.1186/s40645-018-0168-7
  65. Tada, R., T. Irino, K. Ikehara, A. Sugisaki, C. Xuan T. Sagawa, T. Itaki, Y. Kobota, S. Lu, A. Seki, R.W. Murray, C. Alvarez-Zarikian and **Expedition 346 Shipboard Scientists 2018**, High-resolution and -precision correlation of dark and light layers in the Quaternary hemipelagic sediments of the Japan Sea recovered during IODP Expedition 346, *Progress in Earth and Planetary Science*, v. 5, 19 doi. 10.1186/s40645-018-0167-8
  64. Christensen, B.A., Renema, W., Henderiks, De Vleeschouwer, D., Groeneveld, J., Castañeda, I., Reuning, L., Bogus, K.A., Auer, G., Ishiwa, McHugh, C.M., **Gallagher, S.J.**, Fulthorpe, C.S. and Exp. 356 Shipboard Scientists. **2017**. Indonesian Throughflow drove Australian climate from humid Pliocene to arid Pleistocene. *Geophysical Research Letters*, 44. doi. 10.1002/2017GL072977
  63. Groeneveld, J., Hendricks, J., Renema, W., McHugh, C.M., De Vleeschouwer, D., Christiansen, B.A., Fulthorpe, C.S., Reuning, L., **Gallagher, S.J.**, Bogus, K.A., Auer, G., Ishiwa, T. and Expedition 356 Shipboard Scientists, **2017**. Australian shelf sediments reveal shifts in Miocene southern Hemisphere Westerlies. *Science Advances*, **3**, e1602567.
  62. De Vleeschouwer, D., Dunlea, A.G., Auer, G., Anderson, C.H., Brumsack, H., de Loach, A., Gurnis, M.C., Huh, Y., Ishiwa, T., Jang, K., Kominz, M.A., Marz, C., Schnetger, B., Murray, R.W., Palike, H. and **Expedition 356 Shipboard Scientists, 2017**. Quantifying K, U, and Th contents of marine sediments using shipboard natural gamma radiation measured on *DV JOIDES Resolution*. *Geochemistry, Geophysics, Geosystems*, 18, 1053-1064. doi. 10.1002/2016GC006715

61. Park, T., Evans, A. R., **Gallagher, S.J.** and Fitzgerald, E.M.G., **2017.** Low frequency hearing preceded the evolution of giant body size and filter feeding in baleen whales, *Proceedings of the Royal Society B*, v. 284 (1848) 20162528. doi.org/10.1098/rspb.2016.2528
60. Sadler, T., Martin, S.K. and **Gallagher, S.J., 2017.** Three new species of the echinoid genus *Monostychia* Laube, 1869 from Western Australia, *Alcheringa* v. 41, 464-473. doi.org/10.1080/03115518.2017.1282979.
59. Goktas, P., Austin, J.A., Fulthorpe, C.S. and **Gallagher, S.J. 2016.** Morphologies and depositional/erosional controls on evolution of Pliocene-Pleistocene carbonate platforms: Northern Carnarvon Basin, Northwest Shelf of Australia, *Continental Shelf Research*, v. 124, 63-82. doi: 10.1016/j.csr.2016.05.009.
58. Quilty, P.G., Darragh, T.A., **Gallagher, S.J.** and Harding, L.A. **2016.** Pliocene Mollusca (Bivalvia, Gastropoda) from the Sørsdal Formation, Marine Plain, Vestfold Hills, East Antarctica: taxonomy and implications for Antarctic Pliocene palaeoenvironments, *Alcheringa*, v. 40, 556-582, doi: 10.1080/03115518.2016.1180800
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33. **Gallagher, S.J.**, and Gourley, T.L. **2007**. Revised Oligo-Miocene stratigraphy of the Murray Basin, southeast Australia. *Australian Journal of Earth Sciences* v. 54: p. 837-849.
32. Holdgate, G.R., Cartwright, I., Blackburn, D.T., Wallace, M.W., **Gallagher, S.J.**, Wagstaff, B.E., Chung, Li., **2007**. The Middle Miocene Yallourn Coal Seam - the last coal in Australia. *International Journal of Coal Geology* v. 70, p.95-115.

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23. **Gallagher, S.J.,** Greenwood, D.R., Taylor, D., Smith, A.J., Wallace, M.W., and Holdgate, G.R., **2003,** The Pliocene climatic and environmental evolution of southeastern Australia; evidence from the marine and terrestrial realm: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 193, p. 349-382.
22. **Gallagher, S.J.,** and Somerville, I.D., **2003,** Lower Carboniferous (late Viséan) platform development and cyclicity in southern Ireland; foraminiferal biofacies and lithofacies evidence: *Rivista Italiana di Paleontologia e Stratigrafia*, v. 109, p. 159-171.
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20. Holdgate, G.R., Wallace, M.W., **Gallagher, S.J.,** Smith, A.J., Keene, J.B., Moore, D., and Shafik, S., **2003,** Plio-Pleistocene tectonics and eustasy in the Gippsland Basin, Southeast Australia; evidence from magnetic imagery and marine geological data: *Australian Journal of Earth Sciences*, v. 50, p. 403-426.
19. Smith, A.J., and **Gallagher, S.J., 2003,** The Recent Foraminifera and facies of the Bass Canyon; a temperate submarine canyon in Gippsland, Australia: *Journal of Micropalaeontology*, v. 22, p. 63-83.
18. Wallace, M.W., Condilis, E., Powell, A., Redfearn, J.E.P., Auld, K.A., Wiltshire, M., Holdgate, G.R., **Gallagher, S.J 2003,** Geological controls on sonic velocity in the Cenozoic carbonates of the northern Carnarvon Basin, North West Shelf, Western Australia, *APPEA Journal*, Volume 43: Canberra, Australian Petroleum Production and Exploration Association, p. 385-399.

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16. Holdgate, G.R., Rodriquez, C., Wallace, M.W., **Gallagher, S.J.**, Taylor, D., **2002**, The Gippsland Basin enigma; Top Latrobe, and its expression in other SE Australia basins, *APPEA Journal*, Volume 42: Canberra, Australian Petroleum Production and Exploration Association, p. 723.
15. Holdgate, G.R., **Gallagher, S.J.**, and Wallace, M.W., **2002**, Tertiary coal geology and stratigraphy of the Port Phillip Basin, Victoria: *Australian Journal of Earth Sciences*, v. 49, p. 437-453.
14. Wallace, M.W., Holdgate, G.R., Daniels, J., **Gallagher, S.J.**, and Smith, A., **2002**, Sonic velocity, submarine canyons, and burial diagenesis in Oligocene-Holocene cool-water carbonates, Gippsland Basin, Southeast Australia: *AAPG Bulletin*, v. 86, p. 1593-1607.
13. Dickinson, J.A., Wallace, M.W., Holdgate, G.R., Daniels, J., **Gallagher, S.J.**, Thomas, L., **2001**, Neogene tectonics in SE Australia; implications for petroleum systems, *APPEA Journal*, Volume 41: Canberra, Australian Petroleum Production and Exploration Association, p. 37-52.
12. **Gallagher, S.J.**, Smith, A.J., Jonasson, K., Wallace, M.W., Holdgate, G.R., Daniels, J., and Taylor, D., **2001**, The Miocene palaeoenvironmental and palaeoceanographic evolution of the Gippsland Basin, Southeast Australia; a record of Southern Ocean change: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 172, p. 53-80.
11. Holdgate, G.R., Geurin, B., Wallace, M.W., and **Gallagher, S.J.**, **2001**, Marine geology of Port Phillip, Victoria: *Australian Journal of Earth Sciences*, v. 48, p. 439-455.
10. Holdgate, G.R., Smith, T.A.G., **Gallagher, S.J.**, and Wallace, M.W., **2001**, Geology of coal-bearing Palaeogene sediments, onshore Torquay Basin, Victoria: *Australian Journal of Earth Sciences*, v. 48, p. 657-679.
9. Smith, A.J., **Gallagher, S.J.**, Wallace, M., Holdgate, G., Daniels, J., and Keene, J., **2001**, The Recent temperate foraminiferal biofacies of the Gippsland Shelf; an analogue for Neogene environmental analyses in southeastern Australia: *Journal of Micropalaeontology*, v. 20, p. 127-142.
8. **Gallagher, S.J.**, and Holdgate, G., **2000**, The palaeogeographic and palaeoenvironmental evolution of a Palaeogene mixed carbonate-siliciclastic cool-water succession in the Otway Basin, Southeast Australia: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 156, p. 19-50.
7. Holdgate, G.R., Wallace, M.W., Daniels, J., **Gallagher, S.J.**, Keene, J.B., Smith, A.J, **2000**, Controls on Seaspray Group sonic velocities in the Gippsland Basin; a multi-disciplinary approach to the canyon seismic velocity problem, *APPEA Journal*, Volume 40: Canberra, Australian Petroleum Production and Exploration Association, p. 295-313.
6. Holdgate, G.R., Wallace, M.W., **Gallagher, S.J.**, and Taylor, D., **2000**, A review of the Traralgon Formation in the Gippsland Basin; a world class brown coal resource: *International Journal of Coal Geology*, v. 45, p. 55-84.
5. Li, L., **Gallagher, S.**, and Finlayson, B., **2000**, Foraminiferal response to Holocene environmental changes of a tidal estuary in Victoria, southeastern Australia: *Marine Micropaleontology*, v. 38, p. 229-246.
4. **Gallagher, S.J.**, Jonasson, K., and Holdgate, G., **1999**, Foraminiferal biofacies and palaeoenvironmental evolution of an Oligo-Miocene cool-water carbonate succession in the Otway Basin, Southeast Australia: *Journal of Micropalaeontology*, v. 18, p. 143-168.
3. **Gallagher, S.J.**, **1998**, Controls on the distribution of calcareous Foraminifera in the Lower Carboniferous of Ireland: *Marine Micropaleontology*, v. 34, p. 187-211.

2. **Gallagher, S.J.**, and Somerville, I.D., **1997**, Late Dinantian (Lower Carboniferous) platform carbonate stratigraphy of the Buttevant area North Co. Cork, Ireland: *Geological Journal*, v. 32, p. 313-335.
1. **Gallagher, S.J.** and Elsdon, R. E. **1990**. Spinel lherzolite and other xenoliths from a dolerite dyke in southwest Donegal. *Geological Magazine*, v. 127, p.177-180.

#### **AGSO Publication (Wall Chart)**

1. Shafik, S., Glenn, K.C., Bernecker, T., **Gallagher, S.J.**, Holdgate, G.R., Mehin, K., Chaproniere, G.C.H. and Woollands, M. **1999**. AGSO Basin Biozonation and Stratigraphy Chart Series. Chart 18: *Gippsland Basin biozonation and stratigraphy*.

#### **PhD students-ongoing supervision**

- 2012- **Tony Sandler** – Echinoid taxonomy in the Miocene Mannum limestone
- 2015- **Jackson McCaffrey** – Northwest Shelf neotectonics and reefs
- 2019- **Fabian Stanislaus** – the British Irish ice sheet and palaeoceanography of the Northeast Atlantic

#### **PhD completions supervised (11 completions to date)**

- 2013 **Peter Hoiles** BSc Hons PhD – Biogeography of the Indo-Pacific Warm Pool during the Quaternary
- 2010 **Chung Leong Li** BSc Hons PhD – The Pliocene oceanography of Australia, Co-supervisor with J. Bye.
- 2009 **Belinda Kinna** BSc Hons PhD – Sonic velocities and carbonates of the Northwest Shelf, Co-supervisor with M Wallace
- 2006 **Tim Stone** BSc Hons PhD - Late quaternary rivers and lakes of the Cadell tilt block region, Murray basin, Southeastern Australia. Co-supervisor with M Wallace
- 2005 **Georgia Boyd** BSc Hons PhD – Ooidal ironstones in the Late Cretaceous and early tertiary sediments of the Otway basin, southeastern Australia. Co-supervisor with M Wallace
- 2005 **Tiffany Gourley** BSc Hons PhD – Stratigraphy and palaeoenvironmental evolution of Oligocene to Pliocene marine strata in the Murray Basin, Victoria, southeast Australia. Sole supervisor.
- 2004 **Jim Daniels** MSc PhD - The anatomy, growth history and submarine canyons of a cool-water carbonate shelf and slope: The Seaspray Group in the offshore Gippsland Basin Co-supervisor with M Wallace
- 2003 **Andrew Sandford** MSc PhD - Stratigraphy, environments and systematics of the homalonotid and phacopid trilobites from the Upper Silurian-Lower Devonian of central Victoria, Australia (2 vols). Principal supervisor (M. Wallace co-supervisor)
- 2002 **Julie Dickinson** MSc PhD - neotectonics and phosphate in Victoria 1998-2002. Co-supervisor with M Wallace
- 2002 **Andrew Smith** BSc Hons PhD - Recent facies and foraminiferal ecology of Southeastern Australia and its use in palaeoenvironmental interpretation (2 volumes). Principal supervisor (M. Wallace co-supervisor).
- 2000 **Longyin Li** BSc Hons PhD - Holocene sea levels and related environmental changes in Anderson Inlet, Victoria. Principal supervisor (B. Finlayson co-supervisor)

#### **MPhil Completion**

- 2015 **Ngoc Nguyen** – palynostratigraphy of the Eocene Browns Creek section.

#### **MSc students-ongoing supervision**

- 2019- **Adele Westgard** – contourites and glacials off south western Ireland IODP Site U1318  
 2018- **Jin Sol Lee**– Northwest shelf mass transport deposits

### **MSc Completions (11)**

- 2017 **Shaiful Fadhi** – Neotectonics and subsidence in the Carnarvon Basin: Site U1463  
 2017 **Hamish Stein** – petrophysics of the Cenozoic strata of the NWS  
 2017 **Fabian Stanislaus** – Reefs and subsidence near the Rowley Shoals: Site U1464  
 2017 **Yueming Ma** – A modern analogue for palaeobathymetric interpretations on the NWS  
 2016 **Todd Buckley** – the stratigraphy and palaeobathymetry of the Perth Basin: the 50 million year record from Site U1459 and U1460  
 2014 **Matthew Consolmagno** – Late Pleistocene stratigraphy of the Northwest Shelf  
 2014 **Hugh Elder** – Forams and facies of the Great Barrier Reef  
 2014 **Jackson McCaffrey** – Oligocene environment and stratigraphy of Torquay.  
 2011 **John Southward** – Indo-Pacific forams and the Leeuwin Current  
 2010 **Jessica Blosser** – Cretaceous reservoir facies of Gippsland  
 2005 **Lucy Harding** – Early Pliocene Mollusca from Marine Plain, East Antarctica. Principal supervisor with co-supervisor T. Darragh.

### **Bachelor Thesis Utrecht University**

- 2008-2009 **Louise van Bree** – Late Eocene stratigraphy and paleoenvironments of Browns Creek and Castle cove in southeast Australia. Supervisors: Stephen Gallagher, Henk Brinhuis and Lucas Lourens (Utrecht University)

### **BSc Honours Students supervised (31 students 1996- )**

- 2018- **Madeleine Brown**– Northwest shelf foraminifera, IODP Site 1464  
 2015 **Tyler Gribben** – Seismic stratigraphy of the Bare Formation on the Northwest Shelf  
 2014/5 **Patrick Nixon** – Seismic stratigraphy of the submarine canyons on the Northwest Shelf  
 2013/4 **Jack O’Callaghan** – Seismic stratigraphy of the reefs on the Northwest Shelf  
 2012 **Ellyn Tompkins** – The age of the vertebrates at Portland Otway Basin  
 2011 **Brendan Long** – The origin of the GBR  
 2009 **Jessica Trainor** – Cretaceous climate and palynology  
 2007 **Chris Mays** – The biogeographic evidence of the Leeuwin Current.  
 2007 **Maurice Gubiani** – The Plio-Pleistocene evolution of the NW Shelf.  
 2006 **Bronwyn Kearney** – The Oligo-Miocene in Gippsland the icehouse cometh  
**Laura Gow** - The stratigraphy of the Pliocene of the Portland Basin  
 2005 **Jessica Coffey** – foraminifera and Megafauna of the white smokers on Milos  
**Lauren Rikus** – foraminifera and environments of the Pliocene Norwest Bend Formation, Murray Basin  
 2004 **Chung Leong Li** - Palaeoceanography of the Australian Region during the last glacial maximum: A Planktonic foraminiferal view  
 2002/3 **Anthony Vocale** - The Timboon Sandstone in the Otway Basin  
 2001 **Rachel Parkinson**- Quaternary to Recent evolution of the Otway Shelf.  
**Corrine Mays** - Pliocene to Recent evolution of the Gippsland Shelf.  
 2000 **Tiffany Gourley** - Palaeoenvironments and biostratigraphy of the Tertiary of Geelong.  
 1999 **Damien Keys** – The nature and origin of cool water carbonate cycles in the Early Miocene, Gippsland  
**Cameron MacQueen** – Stratigraphy and sedimentology of carbonates in East Gippsland  
 1998/9 **Peta Clarke** - The Eocene-Oligocene boundary of the Aire district, Southeastern Australia  
 1998 **Andrew McKay** – Palaeoenvironments of the foraminifera from the Gellibrand Marl and Port Campbell Limestone and their comparison with the modern foraminiferal distribution in Bass Strait

- Andrea Leach** - The origin of the Oligocene-Miocene dolomites of the Gambier limestone, Otway Basin, Australia.
- Terry Smith** - Local geology and the Eastern view coal measures, Anglesea area, Victoria.
- 1997 **Andrew Smith** - The palaeoenvironmental significance of foraminifera in the Puebla Formation and its comparison with the distribution of foraminifera in Bass Strait
- James Bell** - Palaeoenvironmental analysis of the Jan Juc formation, Torquay, Southeastern Australia
- John Crombie** - Miocene palaeoenvironments of the South East Australian Gippsland Basin
- David Murfitt** – Modern foraminiferal distributions of the Gippsland Basin & palaeoecology of Foraminiferida of the Jemmys Point Formation
- Daniel King** - Submarine channels of the Seaspray Group, Gippsland Basin, Australia
- 1996 **Kerry Lewis** - Palaeoecological and palaeoenvironmental studies of macrofossils from the tertiary limestones of the onshore Gippsland Basin
- Anne Marie Tosolini** - The palaeoecology of the Rocky Camp member of the Buchan Group, East Gippsland

## **OTHER DUTIES**

### **Service to the University**

#### **Roles at the School of Earth Sciences**

- Chair and co-chair of the Earth Science Marketing Committee (2000-2009)
- Member of the Field Committee (1993-)
- Member of Earth Science Staff Student Liaison Committee (2001-2005, 2008-2009)
- Floor Warden and First Aider in the Earth Science Building.
- Earth Science coordinator for Discovery/Open Day (2000-2009)(2014)
- Earth Science student exchange coordinator (2014-)
- Earth Science RHD coordinator (2016-)
- Earth Science coordinator for Welcome Day (2000-2009)
- Earth Science coordinator for Orientation Week (2000-2009)

#### **Roles at the Faculty Level**

- Member of the Faculty of Science Practical Class Enrolments Committee (1993-2000)
- Member of the Faculty of Science Board (2008-2010)
- Member: Faculty of Science Promotion & Marketing Committee (PRaM) (2000-2002)
- Member of the Science 101 Committee (2001-2009)
- Science Faculty Parent Orientation Program (POP) (1999-2000).
- Melbourne Model BSc First Year Working Group Member (2007-2009)