CV: Professor Mike Archer AM

**Birth/nationality**

Sydney, New South Wales; Dual-citizen Australia & USA

**Current full-time position**

Professor, Head of the Vertebrate Palaeontology Laboratory, PANGEA Research Centre, School of Biological, Earth and Environmental Sciences, Faculty of Science, UNSW Australia, Sydney

**Contacts**

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**Websites**

<http://www.pangea.unsw.edu.au/people/academic-research/michael-archer>

<http://www.create.unsw.edu.au/team/marcher/>

<https://www.thextraordinary.org/mike-archer#achievements>

and see below.

**Tertiary and postgraduate education**

*Princeton University*, BA Geology/Biology (MCL), 1967

*University of Western Australia*, PhD Zoology, 1976

**Appointments** (principle)

* Professor, *School* *of Biological, Earth and Environmental Sciences, UNSW*: 1989-present
* Dean of the *Faculty of Science*, *UNSW*: 2004-2009
* Director, *Australian Museum*: 1999-2003
* Associate Professor, *School of Zoology, UNSW*: 1985-1989
* Senior Lecturer, *School of Zoology, UNSW*: 1980-1985
* Lecturer, *School of Zoology, University of New South Wales*: 1978-1980
* Curator of Modern and Fossil Mammals, *Queensland Museum*: 1972-1978
* ARC Researcher, *Western Australian Museum*: 1968-71
* Fulbright Scholar, *Western Australian Museum*: 1967 and 1968

**Fellowships and membership of learned societies and organisations**

* Awarded Bragg Membership in the Royal Institution of Australia (2016) (<http://www.science.unsw.edu.au/news/honour-royal-institution-australia-membership-palaeontologist>)
* FAAS (Fellow of the *Australian Academy of Science*)
* DistFRSN (Distinguished Fellow of the *Royal Society of New South Wales*)
* FRZS (Fellow of the *Royal Zoological Society of New South Wales*)
* FACE (Fellow of the *Australian College of Educators*)
* FA21 (Fellow of *Australia 21*)
* FWAAS (Fellow of the *World Academy of Arts & Sciences*)
* AM (Member of the Order of Australia; <https://www.science.unsw.edu.au/news/dean-wins-national-honour>)

**Research Associateships**

* *Australian Museum*, Research Associate (1978-2007)
* *Queensland Museum*, Honorary Associate (1986-present)
* *American Museum of Natural History*, Research Associate (2005-present)
* *Institute of Environmental Studies, UNSW*, Adjunct Professor (2009 to 2012)
* *Sydney University,* Adjunct Professor (2011 to present?)

**Other awards, citations, honours**

* Awarded the *2019* *Romer-Simpson Medal for Lifetime Achievement in Vertebrate Paleontology* from the international Society of Vertebrate Paleontology (<https://newsroom.unsw.edu.au/news/science-tech/society-awards-top-honour-unsw-palaeontologist>)
* Awarded *2016 NSW Premier's Prize for Science & Engineering for the category* *Excellence in Biological Sciences (Ecology, environmental, agriculture and organismal)* (<http://newsroom.unsw.edu.au/news/science-tech/unsw-researchers-win-premier%E2%80%99s-awards>)
* Article describing new tiny marsupial lion from Riversleigh (Gillespie, Archer, Hand 2016) elected as one of top 10 Open Access Fossil Vertebrates described in 2016 (<http://blogs.plos.org/paleocomm/2016/09/14/vote-for-the-top-10-open-access-fossil-vertebrates-of-2016/>)
* UNSW Faculty of Science Excellence Award voted by students as Best Lecturer in the Faculty (2012 and 2015; <http://www.science.unsw.edu.au/news/2012-faculty-science-staff-excellence-awards>)
* *Time Magazine* selected Lazarus Project (deExtinction effort to resurrect the Gastric-brooding Frog) as one of the world’s 25 Best Inventions of the Year (<http://techland.time.com/2013/11/14/the-25-best-inventions-of-the-year-2013/slide/the-gastric-brooding-frog/>) (2013)
* *Guinness World Records 2016*: ‘First living embryo grown from an extinct frog’. [In reference to DeExtinction research focused on the extinct Gastric-brooding Frog].
* Selected by Director-General of the *Nat. Library of Aust.* for Oral Record of Life History (2010)
* Australian Academy of Science, Feature Fellow (2012) (<https://www.science.org.au/fellowship/fellows/featured-fellows/featured-fellow%E2%80%94michael-archer>)
* Eight Gilbert Whitley awards for books written or edited (1982-2007)
* Clarke Medal of the *Royal Society of New South Wales* (1984)
* Inaugural *Queensland Museum* Medal (1987)
* Australian Heritage Award for Nature Conservation (1989)
* Inaugural *Eureka* Prize for the Promotion of Science (1990)
* Inaugural *IBM* Conservation Award (with S. Hand & H. Godthelp) (1990)
* von Mueller Medal of *ANZAAS* (1994)
* Verco Medal of the *Royal Society of South Australia* (1996)
* Skeptic of the Year, New South Wales Skeptics Association (1998)
* Special Recognition Medal, *National Museum of Australia*
* Dr Alice Whitley Award for Science Education (2002), *Aust. College of Educators*
* Australian Centennial Medal, *Federal Government of Australia* (2003)
* TH Huxley Award, *Australian Museum* (2004)
* Medal of the *Riversleigh Society* (2006)
* Member of ‘Top 100 Most Influential People in Sydney’ (SMH 2008)
* Awarded Membership of the *Australian Institute of Biology*--AIB (from 2008)
* Lots of fossil & living species and genera named in honour including a new phosphate mineral Archerite (<http://www.mindat.org/min-315.html>)

**Trusts/councils/advisory boards**

* Member of Section 10 (Ecology, Environmental Services and Evolutionary Biology) Committee for the Australian Academy of Science (2019-present)
* Moderator/Chair, Opal Association Classification Sub-committee and the Gemmological Association of Australia Working Group Inaugural Meeting (Sept 2018)
* Evaluation Committee Mbr for PhD Travel Awards from *Geosciences* (2017-present)
* Patron of *Palaeontologia Electronica* (2018-present)
* Member, Paleontology/Zoology Representative on the Riversleigh World Heritage Community & Scientific Advisory Committee (2016-present)
* Member IUCN *Sustainable Use & Livelihoods Specialist Group* (2012-present)
* Member IUCN *Commission on Environmental, Economic & Soc. Policy* (2012-present)
* Member, *Fellowship Committee*, Royal Society of NSW (2013-present)
* Member, *Eureka Prize for Promotion of Science* Selection Committee (~1999-2018)
* Chairman, *Dorothy Hill Prize Committee*, Academy of Science (2015-2017)
* Member, DNG for *Ecol., Environ. Sciences & Evo. Biol.* (Acad. of Science (2015-present)
* Co-Director, *Crossbow Enterprises* [Science documentary company] (2006-present)
* Founding Director *Echidna Energy Pty Ltd* [biofuel company] (2009-present)
* Senior Scientist of the *Riversleigh Society Inc* (1986-present)
* Editor, *Ethics in Science and Environmental Politics* (2002-present)
* Reader, *Australian Research Council* (2002-present).
* Editorial Board Member, *JSM Dental Surgery* (USA) (2016-present)
* Fellow of *Australia 21* and Leader of the *Ecosystems Project* (2002-present)
* Head, *Lazarus Project* (2004-present)
* Member Editorial Advisory Board for *Zoological Science* (2007-present)
* Member, *Lifeboat Foundation* Scientific Advisory Board (2008-present)
* Trustee, Thegotics Trust (International) (1985-present)
* Co-Director, *Australian Tropical Research Foundation* (1995-present)
* Member, Scientific Advisory Committee for *Cosmos Magazine* (2005-present?)
* Member, Edit. Board *Geosciences* (<http://www.mdpi.com/journal/geosciences>)(2011-present)
* Trustee, *Australian Geographic Society* (former)
* Member*, World Wildlife Fund* Scientific Advisory Committee (former)
* Member, *TAFE Advisory Board* (former)
* Member, *Children's Creative Workshop* Advisory Board (former)
* Member, *Australian Geographic Society* Research Advisory Board (former)
* Member, Research Advisory Board for *Earthwatch Australia* (1988-1992)
* Member, Council of the *National Museum of Australia* (1990-1995)
* Member*,* IUCN Advisory Committee for the *Evolution of Australian mammals, Riversleigh and Naracoorte* World Heritage property (1995-2003)
* Chairman, Management Committee for *Tales from the Kangaroo’s Crypt* CD-ROM Project (Federal Govt’s ‘*Australia on CD-ROM Program*’) (1996-98)
* Member, Australian Academy of Science *National Committee for the Environment* (1998)
* Co-Director, *Riversleigh Fossil Interpretive Centre* (from 1997)
* Chairman of the *Blue Mountains World Heritage Research Institute* (2006-07)
* Co-Chairman, *Advisory Board of the Connected Waters Centre* (2007-2009)
* Editorial Advisory Board for *Newton* science magazine (2003-2005)
* Co-Director, *Sydney Institute of Marine Science* (2006-2009)
* Member, *Sydney Institute of Marine Science Foundation* (2009-2013)
* Co-Director, *Planet Ark* (2007-2009)
* Member, *Academic Board, UNSW* (2004-2009)
* Member, *Management Board, Injury Risk Management Res. Centre* (2004-09)
* Acting Director *Fowler’s Gap Research Station* (2009)
* Chairman Fowler’s *Gap Research Station Advisory Committee* (2005-2009)
* Chairman, Budget and Priorities Committee, *Australian Museum* (1999-2003)
* Secretary of the Trust of the *Australian Museum* (1999-2003)
* Chairman, Finance Committee of the *Australian Museum* (2002-2003)
* Chairman, Board of Management of the *Australian Museum* (2002-2003)
* Council Member, The *Australian Museum Society* (1999-2003)
* Member, *Council of Australian Museum Directors* (1999-2003)
* Member, *Lizard Island Research Foundation* (1999-2003)
* Member, *National Parks of New South Wales* External Advisory Group (2002-2004)
* Inaugural Chair, *External Environmental Advis. Gp,* Minerals Coun. of Aust. (2000-2003)
* Director, The Aust. Museum *Rheuben Griffiths Trust for the Thylacine Project* (2001-2003)
* Co-Director, *Coral Reef and Marine Science Foundation* (USA) (2001-2003)

**Invited addresses** (representative)

*International Thegotics Conference*, Christchurch, New Zealand; *Australian Conservation Foundation*; *International Ethology Congress*; *Mammal Phylogeny Conference*, American Museum of Natural History, USA; *International Dental Association*; *Conference on Palaeoclimate and Evolution, with Emphasis on Human Evolution*, Airlie Conference Centre, Virginia; *Gondwanan Heritage Congress*, University of Western Australia, Perth; *International Theriological Congress*, University of New South Wales, Sydney; Macquarie University, Sydney (Milthorpe Memorial Lecture); *Southern Temperate Ecosystems: Origin and Diversification Symposium*; Monument Grube Messel--*Perspectives and Relationships, Hessiches Landesmuseum Darmstadt, Germany*; *Biochronologie Mammalienne du Cénozoïque en Europe et Domaines Reliés*, Montpellier, France; Landcare National Conference, Adelaide; *National Landcare Conference*, Conference Centre, Adelaide; Keynote Address to the Australian Mineral Council, Melbourne; *Quaternary Deserts and Climatic Change Conference*, Univ. Wollongong; Mammal Evolution, Western Australian Museum, Perth (Australian Mammal Society); *External Environmental Advisory Committee Chairman’s Address to the Minerals Council of Australia*, Melbourne; Australian Dental Association, Adelaide; Geological Society of Australia (*J.J. Frankel Memorial Lecture*); *National Museum of Australia Public Lecture and Debate* participant; Queensland Museum Society (*Stan Colliver Memorial Lecture* [twice]); Royal Society of South Australia (*Verco Memorial Lecture*); *Young Presidents Organisation* (several times most recently in 2009); Keynote address on Science, *South Korea (Australia/Korea Foundation)*; *Climate change--the up and down sides* (Australian Institute of Biology, 2008); *Malcolm McIntosh Lecture to CSIRO*, Canberra, 2009; Guest Speaker *Wildlife Preservation Society of Australia Ltd*, 2010; Public address to *Bathurst City*, 2010; *Keynote Address to Australian Forest Growers Biennial Conference*, Mount Gambier, 2010; Address to the National Trust of Australia, 2010; Invited Speaker in the *Darwin Symposium on Evolution in Science, Technology and Society*, 2010; Spriggs Lecture, Adelaide, 2010; Address on Scientific Research to the Finance Department, UNSW, 2011; *Public Lecture* in Perth associated with CAVEPS Conference, 2010; Keynote Address to the *Alpine Resorts Sustainability Forum*, 2011; Address to the *Land & Sea Management Board, Northern Territory Government*, Darwin, 2011; Invited to give key Plenary Address at *2012 Conference on Climate Change Research Strategy for Primary Industries* in Melbourne; Public lecture to the University of Sydney, 2012; Keynote address to the *National Geographic Society’s De-Extinction Workshop*, Washington DC, 2012; Address to the *National Geographic Research Committee*, Washington DC, 2012; Inaugural Fellows Lecture to the Royal Society of New South Wales, 2013; Public Address coordinated by the *Long Now Foundation & National Geographic Society*, Washington DC, 15 March, 2013 (TED talk: <http://www.ted.com/talks/michael_archer_how_we_ll_resurrect_the_gastric_brooding_frog_the_tasmanian_tiger.html>; Keynote Plenary Address to the *Australia & New Zealand Intensive Care Society*, Hobart, 2013; *Vince O'Reilly Memorial Lecture* for the second time, 2013; *Address* to *AFAR Foundation Tour Group Conference*, Sydney, 2013; The *LAZSTA Lecture* to the Metropolitan South-West Science Teachers Association, Sydney, 2013; Panelist on The *Scholars Circle*, Los Angeles, 2013 (28 March); Invited to give a Plenary lecture at the 10th *World Wilderness Congress*, Spain, 2013; Plenary Lecture (one of four) at the 2014 *Australian Earth Sciences Convention* (AESC2014) in Newcastle, NSW, 2014; Public Lecture at the *Newcastle Museum*, 2014; Invited Panel Member on the Q/A styled public forum *Saving our Species Congress Event*, Sydney Olympic Park, 2014; Invited to give keynote address at the *World Wildlife Fund’s 9th Annual Kathryn Fuller Science for Nature Symposium*, Washington DC, 2015; Featured Lecture for the *National Geographic Society* on Kangaroo Island, 2015 (October); Research presentation delivered (as a poster) to *Society of Vertebrate Paleontology* Annual meeting, Dallas, Texas, October 2015; gave the *Kelkari Lecture* on Keeping Native Animals as Pets, *Kuringai Chase Alive Naturalist Association*, November 2015; coordinator of Plenary discussion for RZSNSW symposium 8 November, 2015; Plenary speaker at *Palaeontology Down Under 2 Conference*, Adelaide, 10 July, 2016; Invited speaker at *International Bat Resarch Conference* in Durban, Africa, August 2016; invited keynote speaker at *Pakistan International Congress of Zoology*, Faisalabad, Pakistan, Feb./March 2017—but for security reasons did not attend; Key Note speaker at *Science in the Pub* event in Cairns, Qld, focused on the relationships of the Riversleigh and Wet Tropics World Heritage areas, March 2017; Key Note speaker in Mount Isa, July 2017; Key Note speaker at *National Geographic Explorers* meeting, Sydney, November, 2017 and April 2018; Invited speaker at *Messel Symposium* in Darmstadt, Germany, November 2017; Keynote speaker for the Australian Geoscience Council Convention, Adelaide, October 2018; presenter of poster in ‘The Past is a Foreign Country’ symposium on the value of the fossil record for conservation, held by the Royal Society in London, January 2019; invited lecture for National Geographic Explorers expedition to Australia and New Zealand April 2019; invited to give keynote address in 25th Anniversary of the World Heritage Listing of Riversleigh, at Adel’s Grove, Queensland, July, 2019; invited to give the keynote Public Lecture for Society of Vertebrate Paleontology Conference in Brisbane, October 2019; Invited to give public lecture in Hobart on behalf of the Australian Academy of Science, August, 2019; invited to give lecture in Science Festival in the Tasmanian Museum & Art Gallery, August, 2019; Invited to give public lecture for the Wildlife Preservation Society, Brisbane, December, 2019; etcetera.

**Whitley Book Awards**

Best Symposium Volume (1982): *Carnivorous marsupials* (ed. M. Archer);

Best Book on Australian Prehistory (1983): *Prehistoric Animals of Australia* (ed. S. Quirk & M. Archer);

Best Textbook (1984): *Vertebrate Zoogeography and Evolution in Australasia* (ed. M. Archer, G. Clayton);

Best Book on Australian Mammals (1985): *The Kangaroo* (by M. Archer & T. Flannery);

Best Symposium Volume (1988): *Possums and Opossums: Studies in Evolution* (ed. M. Archer);

Best Palaeontological Volume (1991): *Riversleigh* (by M. Archer, S. Hand & H. Godthelp);

Best Popular Zoology (2003): *Prehistoric Mammals of Australia and New Guinea* (by J. Long, M. Archer, T. Flannery, S. Hand)

Certificate of Commendation in the 2007 Whitley Awards Best Reference Text category (2007): *Evolution and Zoogeography of Australasian Vertebrates* (ed. J.R. Merrick, M. Archer, M., G. Hickey, M. Lee)

**Grants received for research** (indicative)

Since 1978, ~$10,000,000 has been awarded to support our research group’s investigations into the fossil deposits of Riversleigh, Murgon and Bluff Downs, Queensland; Lightning Ridge, New South Wales; Tirari Desert, South Australia; Miocene deposits in New Zealand; Paleocene deposits of Patagonia, Argentina; Miocene amber deposits, Queensland.

*Competitive Federal & State Government grants*:

Fulbright Foundation awards; Australian Dept of Arts, Sport, the Environment, Tourism and Territories grants; Australian Research Council (ARC; regular large grants continuously since 1978 including Program Grants; 1995-1997, second largest individual ARC grant received by UNSW; 1998-2000, largest such grant received by UNSW; 2001-2003, large ARC Grant at UNSW c.$190k/yr; 2002-2004 ARC Grant between Australian Museum, Uni of Sydney and Qld Nat Parks & Wildlife Service); series of ARC Discovery and Linkage Grants spanning 2004-2019; Australian National Estate Program Grants Scheme; Australian Museum (research grants); Queensland Museum (research grants); Department of Communication and the Arts (Visions Grant); DEST (Australia on CD Grants Scheme); Federal World Heritage Unit grants for research; etcetera.

The summary assessment of my research program by the Australian Research Council in its Grant Outcomes Evaluation Program with respect to ARC Large Grants support was: Research rating: Outstanding. Investigator rating: Outstanding.

*Corporate/private grants*:

American Explorers Club; Ansett Wridgways Pty Ltd; Australian Geographic Society Pty Ltd; ICI Australia Pty Ltd; International Business Machines (IBM) Australia; Linnean Society of New South Wales; Mount Isa Mines Pty Ltd; Century Zinc Pty Ltd; Pasminco Pty Ltd; Earthwatch International & Earthwatch Australia; Royal Zoological Society of New South Wales; The Riversleigh Society Inc.; Wang Computers Pty Ltd; P&O Nedlloyd; Cadbury/Schweppes; Xstrata Community Partnership Program North Queensland, "Uncovering our outback heritage: the Riversleigh Fossil Project", $360,000; two UNSW Goldstar awards for near-miss ARC DP applications, $80,000; AINSE 842, “Geochemical characterisation of selected sites from the Riversleigh World Heritage Area...”, $8000; AINSE 6731, “Determining the highly controversial age for the bone of an extinct kangaroo...”, $4200; European Synchrotron EC-439, “Phase contrast x-ray synchrotron imaging of fossil rich amber”, 96 hrs beamtime (c. $40,000); National Geographic Society for exploration of “New Riversleigh”, $30,000; UNSW MERII infrastructure grants (2011, 2012, 2013) for thin sectioning equipment, set up of palaeomagnetism lab, microscopy and photography set up, desktop SEM, etc. (>$400,000); etc.

*Private donors*:

Since 1984, private individuals have provided donations in response to our public appeals for support. In total, these have amounted to more than $1,500,000. We have established in perpetuity the CREATE Fund within the UNSW Foundation to assist students and staff researching in the palaeosciences. Other private individuals who have provided significant research donations include: Martin Dickson, Margaret Beavis, Elaine Clarke, Gary Johnston; Dick Smith; Ken Pettit etc.

*Large grants from external organisations*:

Since 1999, monies personally raised as donations, sponsorships and legacies have exceeded $5m plus more than $20m as in-kind donations. As the Director of the Australian Museum, I raised over $42m. As the Dean of Science, I collaborated in raising more than $45m.

**Editorial committees for research journals**

* *PLOS ONE* 2019 (invited to join the Editorial Committee)
* *Australian Mammalogy* 1982-1985 (Editor);
* *Australian Zoological Reviews*  (inaugural planning committee);
* *Australian Zoologist* 1986-88 (Mbr Editorial Committee);
* *Carnivore* 1979 (Mbr Editorial Committee);
* *Mammalian Evolution* 1991-1995 (Mbr Editorial Committee);
* *Mastozoologica* 1993 (Mbr Editorial Committee);
* *Zoological Science* 2008-present (Mbr Editorial Advisory Board);
* *Ethics in Science and Environmental Politics* 2010-present (Editor)

**Research symposia organised**

Organised/co-organised >10 research symposia since 1982 including:

*FATE (Future of Australia’s Terrestrial Ecosystems) Workshops* (three to date; the first launched by the Premier of NSW), 2000-2001. (Supported by many Govt departments and ngos, attended by agencies throughout NSW as well as the NT, South Australia, Queensland and Victoria; now established in the University of Sydney, Faculty of Agriculture, where I am an Adjunct Professor.)

*Do We Need a Zoological Revolution?* 2000. (Organised with D. Lunney; supported by the Royal Zoological Society of New South Wales and the Australian Museum; proceedings to be published.)

*Early Mammal Evolution* 2002. (Organised with A. Musser and S. Hand; an international Symposium with invited participants that will be part of the International Geological Congress held in 2002 at Macquarie University; Prof. Ruth Mawson is one of the key organisers. As currently planned, the proceedings will be published.)

*Evolution of Marsupials 2012* (Organised with S. Hand; International Geological Congress, Brisbane, August, 2012)

*Riversleigh Symposia* (Organised with S. Hand and H. Godthelp; there have been three of these, two of which have led to symposia volumes; the next Riversleigh Symposium will be held at UNSW in December 2016)

*Palaeo Down-Under 2* *Conference*, Scientific Committee, Association of Australasian Palaeontologists (2015-16)

**Companies/organisations established**

* *Crossbow Enterprises Pty Ltd*, Director with Norm Wilkinson, to conceive and develop documentaries arising in the first place from research done at Riversleigh;
* *Echidna Energy Pty Ltd*, Founding Director with six other participants representing sectors of the mining industry, biochemistry of biofuels, economists/investment managers, inventors and harvester designers, to develop a program for the sustainable harvest Spinifex (see above).
* *Mammal Society of NSW Inc*, Founding Member with others to promote the initiative of Australians being able to have selected native mammals as pets (started 2019).

**Institutions established, progressed or initiated**

* *Warren Somerville Collection*, Bathurst, NSW. $15 million gem & fossil collection donated to the Australian Museum and housed in a purpose-renovated heritage museum in Bathurst.
* *Australian Museum renovation and expansion*. In 2003 the State Government agreed to provide $40m to develop an annex on its eastern flank; the new AM wing constructed using these funds opened in 2008.
* *National Opal Collection*, Pitt Street, Sydney. A State Government/Corporate sector partnership conceived and organised with Andrew Cody (National Opal Collection and Cody’s Opals) to position Australian Museum opalised fossils in a central city location on the Pitt Street Mall.
* *Age of Fishes Museum*, Canowindra, NSW. Stage 2 of this initiative was progressed and broadened to develop collaborations with the Royal Tyrell Museum in Canada.
* *Lightning Ridge Opal and Fossil Museum,* Lightning Ridge, NSW. This initiative, which began in 2003, is now being progressed by local organisations and personnel including Jenni Brammall (former palaeontology research student at UNSW). Stage 1 (with Glenn Murcutt as architect) was launched by the Governor General of NSW in 2011; further funding of $18m committed by State & Fed Governments in 2019.
* *Wellington Caves Museum*, Wellington, NSW. Discussions began in 2003 between the Australian Museum and the Wellington Shire and Caves Board to establish a major regional museum in Wellington to display the AM’s Wellington Collections. Dr Mike Augee (formerly UNSW; now Dep. Mayor of Wellington) manages further development of displays at Wellington Caves. Renovation is currently underway (2019).
* *The Eye Health Institute* in UNSW made possible by a generous donation of $40m from Guide Dogs NSW/ACT. As Dean of Science at UNSW which includes the School of Optometry & Vision Science, I worked with UNSW and Guide Dogs NSW/ACT staff to ensure that this initiative was soundly conceived, supported, directed and managed.
* *Sydney Institute of Marine Science* at Chowder Bay. As Dean of Science at UNSW I worked as an inaugural Director with others including Prof. Frank Talbot and other Deans/Deputy Vice-Chancellors at Univ. Sydney, Macquarie and UTS to successfully establish this four-university research/teaching entity.

**University teaching**

*Postgraduate* supervision of research projects has been carried out in almost all fields of vertebrate palaeontology (most taxonomic groups), stratigraphy, palaeoecology and biocorrelation. Since 1978, Archer has supervised or co-supervised 1 Graduate Diploma research project, 3 Masters Qualifying research projects, more than 35 Honours projects, 3 Masters research projects and more than 30 Doctoral research projects to completion, etcetera. Postgraduate projects focused on living animals have included field ecology of small desert marsupials, molecular and morphological systematics of bats, electrophoretic and morphological systematics of marsupials, phylogenetic systematics of New Guinean mammals, functional dental morphology, feeding behaviours of marsupials, basicranial functional morphology, auditory structures in acrobatid marsupials, forest ecology of bats, snake and bird phylogenetic systematics, etcetera.

Almost all my postgraduate students have obtained positions. Those who do not have tenured positions are successful consultants. Most have gone on to illustrious careers (although not always in science) such as Paul Willis (Director Royal Institute of Australia), Kerry Nettle (Greens Senator), Walter Boles (Curator of Birds, Australian Museum), Ken Aplin (CSIRO Senior Research Scientist), Scott Hocknull (Young Australian of the Year, Curator of Fossils, Queensland Museum), Tim Flannery (Australian of the Year), Mina Bassarova (World Wildlife Fund), Jeanette Muirhead (Environment Australia), Stephen Salisbury and Vera Weisbecker (academics, University of Queensland), Pip Brewer (Curator of Fossils, Natural History Museum, London), Steve Wroe (academic, University of New England), Robin Beck (academic University of Salford); Kenny Travouillon (Curator of Mammals, Western Australian Museum); Julien Louys (ARC postdoctoral fellow, ANU); Karen Black (ARC DECRA); Ben Kear (Professor, University of Uppsala, Sweden), etcetera. Common denominators in the success of most are the graduate attribute skills they gained during their time at UNSW, including science communication.

Undergraduate teaching since 1978 includes: 1st Year Biology courses Terms 1 and 3 (continuing), Conservation Biology Course (continuing), Environmental Geology (continuing); 2nd year, Systematics course, General Ecology course; Vertebrate Zoology course (co-coordinator; continuing), Science in the Cinema (continuing); 3rd year Mammalogy course, Vertebrate Zoogeography and Evolution course, Life Through Time (continuing), Arid Zone Biology; 4th year Honours course; Climate Change course; Graduate Skills course including critical thinking; etcetera. Lectures have also been given at the University of Sydney (Mammal Biology Course; Postgraduate Seminar Program in Dentistry, Westmead Hospital), Macquarie University (Human Evolution), LaTrobe University (Marsupial Biology Course), University of Melbourne (Mammalogy), James Cook University (Conservation Biology); and many museums (range of topics).

Regular lectures are given to secondary schools at all levels (NSW, Victoria, Qld, WA) on a range of science topics. Public lectures are also given on a regular basis throughout Australia and internationally.

**Science communication and media** (representative)

# The records below are for March 2013-July 2016 as an indication of presentations in this category (via Media Manager, Faculty of Science, UNSW) but have always been similar in number per year. Items not noted here include the article *Ordering the vegetarian meal? There’s more animal blood on your hands*,which appeared in The Conversation in 2011, has had (at August 2016) 3,454,560 readers world-wide and is one of if not the most read article to appear in the publication. This impact resulted in UNSW being recognised as the university in Australia with the greatest readership in ‘The Conversation’ since its inception.

July 2016. **New extinct marsupial: Mike Archer**, Suzanne Hand and Karen Black (BEES). *Science Daily, Geelong advertiser, ABC online, Mashable, Cosmos, The Japan Times, Sky News online, Le Parisien, L’illustre, Australian Geographic, Sciencealert, Launceston Examiner, Burnie Advocate, Heritage Daily, New Historian*

May 2016. **Snail eating marsupial: Mike Archer** and Sue Hand (BEES). Major international coverage including *IFLS, Washington Post, Daily Mail,**Sunday Age, Business Insider, Australian Geographic, Science daily, International Business Times, Phys.org, UPI, iNews, National Daily Press, Science magazine, Sciencealert.*

February 2016. **Mike Archer** and Sue hand (BEES). Big bird*. ABC radio PM, Herald Sun, NT News, Australian Geographic, North Western Star*. **Mike Archer** (BEES): *ABC Illawarra* on kangaroo culls; *BBC* on Nullabor plain history; *ABC radio Sydney* on bushfires and biodiversity; *The Guardian* on marsupial lions; *ABC PM* on big bird.

January 2016. **Mike Archer** (BEES):*ABC radio Sydney* on pygmy possums. **Mike Archer** (BEES):*ABC radio Adelaide* on giant animals.

November 2015. **Mike Archer** (BEES): Focus of an online documentary ‘The Collectors’ series produced by the FiveThirtyEight Group based in the USA (<http://fivethirtyeight.com/features/the-scientist-trying-to-reverse-extinctions-think-jurassic-park/>)

September 2015. **Mike Archer** (BEES): *ABC radio Sydney* on new human species

June 2015. **Mike Archer** (BEES): *ABC Adelaide* on new dinosaur movie; *ABC Sydney* on red blood cells found in dinosaur, *Cairns Post* on wombat evolution

May 2015. **Mike Archer** appeared at *New Scientist* Live to give plenary address

April 2015. **Mike Archer** (BEES): *Canberra Time et al, ABC Adelaide* on de-extinction

March 2015. **Mike Archer** (BEES): *ABC Hobart, ABC Sydney Drive, ABC Darwin, ABC Gold Coast, news.com on native animals as pets*

February 2015. **Mike Archer** (BEES):*Radio Vienna*, Austria, on de-extinction

January 2015. **Mike Archer** (BEES): *ABC radio 702* on native pets, *Australian geographic* on fossilisation, *4BC Brisbane* on fossilisation, *ABC 702* on icthyosaurs and fossilisation, *^PR Perth* on fossilization

December 2014. **Mike Archer** (BEES):*4BC Brisbane* on ownership of fossils

November 2014. **Mike Archer** (BEES):*ABC 666 Canberra* on ancient kangaroos

October 2014. **Mike Archer** (BEES):*ABC Science* on dinosaurs, *Australian Geographic* on ancient kangaroo gait

September 2014. **Mike Archer** (BEES):*Channel 9 TV* news, *SBS TV World News, 2UE* on new dinosaur; *RN Big Ideas* discussing extinction; *ABC Catalyst* on the Eureka Prizes; *SMH and The Age* on eating kangaroos

June 2014. **Mike Archer** (BEES):4BCBrisbane on fossil hunters

May 2014. **Ancient giant sperm: Mike Archer** (BEES)*SMH print and online with video*, *ABC radio PM, ABC Science online, Daily Telegraph online and print, news.com, ninemsn, AFP, Adelaide Advertiser, Herald Sun, West Australian*. Plus extensive international coverage including *Nature with video, Discovery, Daily Mail, London Telegraph, Mirror, Scientific American, Huffington Post, Los Angeles Times, Washington Post, CNN*. **Mike Archer** (BEES): *Courier Mail* on the New Riversleigh and fossils hunting

April 2014. **Nimbacinus Riversleigh fossil: Mike Archer** (BEES)**.** Coverage included *SMH, The Australian, Life Scientist, Business Insider, Red Orbit, Science Recorder, Science World Report, Headlines and global news, Nature World News, Daily Examiner, North Queensland Register*.

March 2014. **Mike Archer** (BEES): *ABC Science* online on loss of species, *ABC South Coast* on extinction.

February 2014. **Mike Archer** and Karen Black(BEES): *Newcastle Herald* on fish bones found in Newcastle. **Mike Archer** (BEES): *ABC Big Ideas* on fossils, *2UE*

November 2013. **Extinct giant toothed platypus**: **Mike Archer** Sue Hand (BEES): *SMH news, Canberra Times, The Australian news, ABC Science online, The Guardian Australia, New Scientist, news.com.au, Herald-Sun, West Australian, National Geographic, Australian Life Scientist.com.au, NBC news, Eureka Science news, International Business Times, Headlines and global news, International Science times, Examiner.com, Discovery news, sciencemag.org, LiveScience, ScienceDaily, Brisbanetimes, sky news, AFP, Sciencealert, Bangkok Post, Business insider Australia, digitaljournal, isciencetimes, Los Vegas Guardian, ninemsn.com.au, Australian Geographic, DesignandTrend.com, Scienceworldreport, Voice of America, The Independent, Perthnow, Bangalore Mirror, The register, Times of India, The Daily Mail, Christian science Monitor, the Inquisitr, RT, University Herald, National Turk, Mirror, Patriot news, Latin times, Webpronews, GMA news, iAfrica, Atlanta Jounral Constitution, Fearnet, Pentagon Post, Uinterview.com, University Herald, Crossmap, KMBZ, CBCnews.com, Franchise Herald, Descrier, KMBZ, JobsandHire, PLoSblogs, Asiancorrespondent, French Tribune, The week UK, NewspointAfrica, Truthdive, Newser, msnNOW, Webpronews, eCanadanow, Travelers today, RedOrbit, Yahoo7news, Wires: AAP, AFP, Xinhua news agency, Reuters, UPI, Radio: ABC radio Adam Spencer, ABC radio AM, ABC southern Queensland, 4BC Brisbane, ABC news radio, 2UE, 6RTR Perth, 3AW, BBC World Service, morning TV in Japan, Huffington Post, London Telegraph.* **Lazarus project: Mike Archer** (BEES): *Time’s* top 25 inventions for 2013, *Phys.Org, ABC Canberra*

October 2013. **Mike Archer** (BEES):*3AW, ABC Science* online: on discovery of giant wombat in Victoria, and ancient mozzie DNA.

August 2013. **New Riversleigh Discovered** **Mike Archer** (BEES) Newspapers: *SMH news, feature and multimedia package*; also ran in print or online in the *Age, Canberra Times, Brisbane Times, Border Mail, Illawarra Mercury, North West Star, WA Today, North Queensland Register*. Online: includes *Austrian Tribune, international business times, livescience, Huffington Post*.

July 2013. **DE-EXTINCTION Mike Archer** (BEES) Print: *The Qantas magazine, Readers Digest Radio: ABC Perth, Austrian Broadcasting Corporation* TV: *BBC Sunday Morning Live* (via Skype)

June 2013. **De-extinction: Mike archer**. Print: *SMH Good Weekend major profile, SMH news* on mammoth blood. Radio*: 2ue* interview, *CBC radio Canada* against Scientific American editor; TV: *Channel 9 Today show*. Online: *canberratimes.com.au*. **Riversleigh:** **Mike Archer** (BEES). Radio: *ABC tropical north*

May 2013. **Mike Archer** on vegetarianism. *ABC Radio National Science Show*. **Mike Archer** on de-extinction

March 2013. **Mike Archer “De-extinction” and production of cloned embryos of extinct gastric brooding frog.** Extensive worldwide coverage.Locally:Page 1 in the *Sydney Morning Herald*, *The Age, Canberra Times. Weekend feature in SMH.**ABC radio AM* program around the country. *ABC TV 7pm news around the country and News 24. Channel 7 Sunrise, Sky TV news.**AAP, the Australian online, Herald Sun, also regional papers such as Border Mail, Burnie Advocate, Launceston Examiner.* Overseas*: WUSA TV, BBC World service, National Geographic magazine, New Scientist, Science, New York Times, Guardian, Daily Mail, Wired, Metro International, Der Spiegel, Austrian, Polish and German publications. US national public radio Science Friday show, Irish national radio, Voice of Russia, AAAS report, The Scholars Circle in Los Angeles*.**Endangered pygmy possum research**. **Mike Archer** (BEES). *The Age, SMH, Guardian, Reuters*.

**Synopsis of recent palaeontological research**

Over 100 researchers from 30 institutions and 13 other countries (France, Germany, Czech Republic, England, USA, Sweden, China, Argentina, Brazil, Colombia, New Zealand, Japan, South Africa) are collaborating in the analysis of Riversleigh, Murgon and New Zealand resources which include the fossil records of more than 83 families of Australian animals and plants.

Considering outcomes from two of the largest projects—Riversleigh and Murgon, the following list of discoveries is representative.

***Murgon Project.*** Each year, the Tingamarra Local Fauna (LF) from the Murgon deposit in southeastern Queensland has grown with addition of new mammals, birds, amphibians and reptiles. Tingamarra material has already been the subject (or part of the focus) of seven PhD research projects (Salisbury, Willis, Scanlon, Boles, Nguyen, Muirhead, Beck) andmany publications with more in preparation. International research projects on Murgon materials involve colleagues from France, Argentina, Germany, UK, Czech Republic and the USA. Normally at least one expedition a year is organised from UNSW. At the current rate, about 50 scientifically assessable specimens, including complete (crocodile) and partial (mammal) skulls of some taxa, are recovered from matrix collected during a field season (i.e., with a success rate similar or higher than we achieved processing the mammal-rich, late Oligocene clays in South Australia that have produced the more derived Ditjimanka, Mammalon Hill, Pinpa and Ericmas LFs of central Australia.

Main points of general significance that have developed from Murgon research

1. Although illite from the deposit was dated (K/Ar) as >54.6 +/- 0.5 Ma (millions of years ago), controversy focuses on this date; accumulating palaeontological evidence, however, supports the original interpretation.
2. This is the only marsupial-bearing deposit from the Australian portion of Gondwana older than 26 Ma and the only mammal-bearing deposit spanning the gap between the Late Cretaceous and the Late Oligocene.
3. Considering the date of final severance of Australia from Antarctica (about 45 Ma ago, depending on authority), the Murgon deposit predates isolation of Australia and, as such, is of paramount importance in providing the only opportunity to document the nature of Australia’s (and possibly eastern Gondwana’s) ‘pre-split’ Cenozoic biota.
4. Murgon also provides the only view of Australia's mammal fauna shortly after the start of the 'Age of Mammals' (65 Ma) when mammals elsewhere underwent major adaptive radiations.

Significant Murgon discoveries

1. Discovery of Australia’s oldest frogs.
2. Discovery of possible urodeles (salamanders), which would be the first demonstration that this cosmopolitan group once existed in Australia.
3. Discovery of Australia’s oldest madtsoiid snakes; these are referred to *Alamitophis* and *Patagoniophis*, genera previously only known from the Cretaceous of Argentina.
4. Discovery of trionychid turtles with affinities to American rather than (as expected) Eurasian forms.
5. Discovery of the oldest known mekosuchine crocodiles (*Kambarra*).
6. Discovery of the world’s oldest songbirds (passerines) by 20 million years.
7. Discovery of graculavids with affinities to Cretaceous & Paleocene bird taxa.
8. Discovery of the oldest bat in the Southern Hemisphere (*Archaeonycteris*) and among the oldest in the world;
9. Discovery of a probable placental condylarth (*Tingamarra*) which challenges understanding about the origins of the balance of mammals now distinguishing Australia. We have now found a second, larger form that is very similar.
10. Discovery of very enigmatic marsupials (e.g., *Thylacotinga*) with affinities to Peruvian and Argentinian Paleocene and early Eocene taxa.
11. Discovery of Australia’s oldest marsupials (e.g. *Archaeonothos*)
12. Discovery of ameridelphian marsupials based on tarsal bones found in Murgon deposit.
13. Discovery of a new species of *Chulpasia*, a marsupial genus otherwise only known from the late Paleocene of Peru—the first genus of land mammals known to span the Southern Hemisphere.
14. Discovery of Australia’s first undoubted microbiotheriids such as a taxon close to the Paleocene *Mirandatherium* from Argentina; this discovery corroborates anatomical and biochemical studies that suggest microbiotheriids are the sister-group of all or part of the Australian marsupial radiation.
15. Discovery of *Djarthia,* the oldest australidelphian marsupial, a group unique to Australia and South America and the probable source for the Australian marsupial radiation.
16. Discovery of a caroloameghiniid-like marsupial that resembles early Eocene Argentinian taxa.

***Riversleigh Project***. With discovery in 1983 of two vast regions of highly fossiliferous middle to late Tertiary sediments, annual expeditions have provided research materials documenting the deep history and diversity for almost all families of living and as many again of extinct Australian mammals and other vertebrate groups. Each year's field research has resulted in discovery of new deposits, new taxa and sometimes new time frames. Field and laboratory research has accelerated over the last 10 years. Since 2008, radiometric dating has enabled construction of a national framework for biocorrelation of Australian mid to late Cenozoic vertebrate fossil deposits. Riversleigh’s fossil fields have now been: 1, excised from Riversleigh Station; 2, added to Lawn Hill National Park; 3, gazetted on the National Estate of Australia; and 4, successfully nominated by the Australian Government for inscription on the World Heritage list as ‘Australian Fossil Mammals: Riversleigh and Naracoorte’ (Australia’s only World Heritage fossil property). Many PhD and Honours theses and hundreds of papers have been produced based on the fossils, rocks and palaeoecology of Riversleigh. A recent public lecture about general issues relating to Riversleigh can be found here: <https://www.youtube.com/watch?v=2gmCxSPqKc4&feature=youtu.be>. Other links include: <http://www.sbs.com.au/topics/science/nature/article/2016/06/10/carnivorous-kangaroo-and-4-other-animals-were-almost-glad-are-fossils>; <https://vimeo.com/71542680>. <https://www.australiangeographic.com.au/news/2019/07/david-attenborough-celebrates-the-25-year-anniversary-of-the-riversleigh-world-heritage-area/?fbclid=IwAR0ILPVTF7QRUdvfYcJSOvySWwciFAtxg6pQ0uxIjL2cYpkkOiLLuuIlOMQ> is a 2019 article focused on the 25th Anniversary of World Heritage Listing. Here’s an August 2019 Science Show with a segment by Robyn Williams interviewing about some of the early history of discovery and accumulating understanding about Riversleigh’s palaeobiodiversity with a focus on some of the more unusual taxa that have been described: <https://abcmedia.akamaized.net/rn/podcast/2019/08/ssw_20190824.mp3>.

Some of the main points of general significance arising from research at Riversleigh

1. Riversleigh’s Cenozoic fossil deposits span the late Oligocene to Holocene, with gaps of uncertain duration.
2. This record includes one of (if not the) longest for rainforest communities anywhere in Meganesia.
3. It includes palaeocommunities that appear to be ancestral to the modern World Heritage Wet Tropics property in northeastern Queensland, extending understanding about the origins of this unique modern resource back to at least 24 Ma.
4. Discovery here of the oldest representatives of generic-level groups that characterise modern rainforests (e.g., lyrebirds, logrunners, musky rat-kangaroos, cuscuses, woolly ringtail possums and striped possums).
5. Because most of the richest Tertiary assemblages from Riversleigh are dominated by forest creatures, they complement those from other areas of the continent mostly dominated by aquatic creatures.
6. Riversleigh’s record spans the critical middle to late Miocene million year period when global climates shifted from greenhouse to icehouse conditions enabling increased understanding about changes that may accompany a modern greenhouse shift. Because comparable changes on other continents were normally accompanied by faunal interchanges, changes in isolated Australia may now provide the only opportunity to understand inherent community responses to greenhouse/icehouse shifts.
7. Riversleigh's record spans the late Miocene decline in closed forests, their replacement by open forests and (by Pliocene/Pleistocene time) development of grasslands.
8. The Riversleigh record includes the most diverse Tertiary assemblages known from Australia, combining archaic forms previously known from central Australia with progenitors for, or plesiomorphic relatives of, most living groups.
9. Riversleigh has produced the first fossil records for many genera, families and even orders (e.g., marsupial moles) with still-living species.
10. Riversleigh research has more than trebled previous knowledge about the diversity of Australia’s terrestrial Tertiary mammals with over 250 new species, new genera, families and orders; comparable increases in knowledge have also occurred here for other groups of Australian vertebrates such as frogs, turtles, snakes and birds (particularly forest birds).
11. Because most of the fossil deposits at Riversleigh are *in situ* freshwater lacustrine limestones, preservation is often almost perfect enabling detailed anatomical as well as systematic studies.
12. Some extraordinary examples of preservation include publication of discovery of fossilised soft tissues that include intact cells and even nuclei within those cells signaling a type of mineralization not previously known for Cenozoic animals.
13. Preliminary ecological analyses demonstrate that even Riversleigh’s most diverse communities appear to represent single (not mixed) communities.
14. Several Riversleigh taxa have suggested rainforest ancestry for groups that today have mainly or exclusively dry country representation (e.g., emus, phascolarctids, notoryctids and pygopodids).
15. Publications are now appearing about how the Riversleigh fossil record provides innovative strategies for conserving critically endangered living species that are descendants within lineages that have spanned at least 24 million years.
16. More than 54 species of fossil bats spanning the late Oligocene to early Pleistocene have been found in Riversleigh deposits, which is far and away the continent’s richest record for this major group of Australian mammals.
17. The only early Pleistocene site in the northern half of the continent is Rackham’s Roost Site at Riversleigh.
18. Discovery of ‘New Riversleigh’ in 2012, a new palaeontological field close to but outside of the World Heritage Area is providing what appears to be the first diverse small to medium-sized late Miocene mammal assemblages from the continent. A link to a Sydney Morning Herald videoclip about this story is: <https://vimeo.com/71542680>.

Some significant individual discoveries from the Riversleigh area

1. Discovery of the first fossil plants (with insects) at Riversleigh (Dunsinane Site).
2. Discovery of often spectacularly preserved fossil insects (e.g. butterflies, beetles etc.), millipedes & isopods from Miocene sites, many of which exhibit fossilised muscles, eyes, bacteria and even fungi.
3. Discovery of many Miocene lungfish that overlap with taxa known from central Australia.
4. Discovery of many new kinds of turtles including one of Australia’s most plesiomorphic meiolaniids, Australia’s only fossil *Pseudemydura*, many of its oldest (late Oligocene and Miocene) chelids etc.
5. Discovery of a new giant Pleistocene chelid (*Elseya lavarackorum*) which was described by us first as a fossil but later found by us to still be alive in northern rivers.
6. Discovery of a plethora of very strange mekosuchine crocodiles (one of which may have been 10m in length) including some that appear to have been terrestrial and possibly even arboreal, and some of Australia’s oldest crocodylines.
7. Discovery of Australia’s only fossil pygopodid lizards.
8. Discovery of Australia’s oldest agamid lizards.
9. Discovery of a plethora of archaic madtsoiid snakes.
10. Discovery of Australia’s oldest-known elapid, typhlopid (only fossils known) and pythonid snakes.
11. Discovery of many new kinds of birds (Riversleigh providing the first significant and in most cases only known information about the history of Australia’s non-aquatic forest birds) including, of particular importance, Australia’s oldest parrots, only fossil budgerigar, only fossil lyrebirds, oldest known kingfisher, only fossil logrunners, only fossil swiftlets, most complete material of *Emuarius* (an ancestral emu), a swivel-legged raptor unique to Australia and many other birds presently under study.
12. Discovery of the toothed platypus *Obdurodon dicksoni*, represented by the most complete skull of a fossil monotreme and only skull of a fossil ornithorhynchid known.
13. Discovery of a weird new Order of zalambdodont mammals unique to Riversleigh, the yalkiparidontians colloquially known as ‘Thingodontans’.
14. Discovery of many other unique groups of presumably Gondwanan mammals such as the Yingabalanaridae.
15. Discovery of more than seven new kinds of thylacines ranging from rat- to dog-size carnivores, including an archaic species of *Thylacinus*.
16. Discovery of the first-known Tertiary skeleton of an extinct thylacinid (*Nimbacinus dicksoni*).
17. Discovery of many new kinds of dasyurid-like carnivores as well as highly derived forms from the late Miocene Encore Site and from the Plio-Pleistocene Rackham’s Roost Site.
18. Discovery of bizarre family of carnivorous mammals (Malleodectidae) that converged on snail-eating lizards.
19. Discovery of an enormous range of perameloid bandicoots, most represented by complete skulls, ranging from mouse- to cat-size, most belonging to the extinct family Yaralidae.
20. Discovery of *Naraboryctes*, Australia’s only fossil notoryctid (marsupial moles), which clarifies the otherwise controversial evolutionary origins of the highly specialised molars of modern notoryctids.
21. Discovery of the most diverse sequences and most plesiomorphic Tertiary marsupial lions, including a complete skull referable to *Priscileo*, as well as the tiny *Microleo*, a potential common ancestor for *Wakaleo* and *Thylacoleo*.
22. Discovery of a series of fascinating new vombatoids (wombats) representing different genera that document evolutionary transition from low-, complex-crowned and rooted forms (*Rhizophascolonus* spp.) to (in Encore Site) rootless hypselodont forms (*Warendja*).
23. Discovery of a wide range of diprotodontids including the most plesiomorphic zygomaturines and diprotodontines known.
24. Discovery of a spectacular ontogenetic growth series (more than 24 well-preserved skulls and at least two articulated skeletons) of a sheep-sized, plesiomorphic zygomaturine, *Nimbadon lavarackorum*.
25. Subsequent discovery that *Nimbadon* was almost certainly an arboreal, sheep-sized, fruit-eating diprotodontid that hung upside in tree crowns: i.e. ‘herds overhead’.
26. Discovery of many kinds of palorchestids including species of the otherwise southern Australian genus *Ngapakaldia* (*N. bonythoni*) and, from Encore Site, a form seemingly ancestral to *Palorchestes* *painei* from Alcoota.
27. Discovery of many kinds of new early to early late Miocene koalas including the most plesiomorphic genus known and, in Encore Site, antecedents of *Phascolarctos*.
28. Discovery of several different kinds of wynyardiids, including complete skulls of *Namilamadeta*.
29. Discovery of ilariids including the juvenile and adult dentitions of *Kuterintja* *gnama*, a taxon also known from the late Oligocene Mammalon Hill LF of central Australia.
30. Discovery of Australia’s only fossil striped possums, *Dactylopsila* (Petauridae).
31. Discovery of a large sample of Australia’s oldest and most plesiomorphic *Burramys* and the oldest known representative of the *Cercartetus* pygmy-possums (Burramyidae).
32. Discovery of many new Tertiary petaurid possums (yet to be described).
33. Discovery of at least 18 Tertiary ringtail possum species (some known from whole skulls), including representatives of all previously known Oligo-Miocene genera as well as many unique to Riversleigh and possibly the first Tertiary record of modern lineages.
34. Discovery of new and archaic miralinid possums, the first outside of central Australia.
35. Discovery of Australia’s oldest phalangerids and new taxa under study.
36. Discovery of representatives of three distinct lineages of ektopodontid possums, none of which have previously had a fossil record from the northern half of the continent.
37. Discovery of in excess of 35 different kinds of kangaroos, many of them represented by complete skulls and in some cases partially articulated skeletons, including hypsiprymnodontids, propleopines, balungamayines, potoroids, balbarids, a tusked kangaroo, etcetera. Taken together, Riversleigh’s Tertiary kangaroo suites are the most diverse and best preserved on the continent.
38. Discovery of a kangaroo that has a tooth it used for two entirely different purposes at two different stages in its life—a biologically unique evolutionary development.
39. Discovery of an articulated skeleton of one of the most archaic kangaroos known.
40. Discovery of new pilkipildrid possums, a group distantly related to petaurids.
41. Discovery of at least 12 new early muroid rodents, Australia’s most archaic, including one that belongs to the Dendromurinae which has living representatives only in Africa.
42. Discovery of at least 20 species of Old World leaf-nosed bats including representatives of otherwise uniquely Eurasian genera, the only known ancestors for unique modern Australian rhinonycterids and hopposiderids and several new, extraordinarily distinctive genera.
43. Discovery of at least 8 species of carnivorous megadermatid bats including representatives of the Asian genus *Megaderma*, others that resemble Eurasian taxa, ancestral species of *Macroderma*, and the oldest fossil record of the still-living species.
44. Discovery of species of molossid bats including some of the most plesiomorphic known in the world.
45. Discovery of vespertilionid bats including species closely related to European kinds and the oldest known representatives of modern Australian lineages.
46. Discovery of the first known mystacinid bats from Australia (present also in the Bullock Ck LF of the NT), taxa that solve the mystery of the origins of these previously uniquely New Zealand bats.
47. Discovery of Australia’s oldest known emballonurid bats.
48. Discovery of the first known extinct acrobatid phalangeridans (two new species of *Acrobates* and two species of *Distoechurus*).
49. Discovery of a vast new fossil field southwest of the Riversleigh World Heritage Area (<https://vimeo.com/71542680>)
50. Discovery of a new and the largest known ornithorhynchid monotreme, *Obdurodon tharalkooschild*. [http://vertpaleo.org/Society-News/SVP-Paleo-News/Society-News,-Press-Releases/Press-Release-Fossil-of-Largest-Known-Platypus-Dis.aspx](http://vertpaleo.org/Society-News/SVP-Paleo-News/Society-News%2C-Press-Releases/Press-Release-Fossil-of-Largest-Known-Platypus-Dis.aspx).
51. Discovery of the world oldest (17myo) sperm cells which also have uncrushed nuclei preserved inside them high-lighting a new more extreme form of the ‘Medusa Effect’. <http://www.abc.net.au/science/articles/2014/05/14/4003454.htm>.
52. Recognition (2020) of a new genus of marsupial lions from Riversleigh: *Lekaneleo* <https://edition.cnn.com/2020/02/28/australia/marsupial-lion-australia-intl-scli-scn/index.html>
53. Discovery at Riversleigh of a new group of hypercarnivores *Whollydooleya*, a new tiny marsupial lion *Microleo attenboroughi*, the oldest bilbies etc. (e.g. <http://news.nationalgeographic.com/2016/08/marsupial-lions-tasmanian-devils-teeth-fossils-australia-science/>).
54. Celebration of the 25th Anniversary of World Heritage Listing of Riversleigh in July 2019 was covered by media (e.g.: <https://www.northweststar.com.au/story/6285249/letter-from-david-attenborough-read-out-at-riversleigh-25th-anniversary/?fbclid=IwAR1lwu85D_Vm1Q9HzwbOTt05kgecUaz96uX9GupET2AxX342beXtI0Id0uU>).

***Other palaeontological research programs***. In addition to Riversleigh and Murgon, our research programs and expeditions are annually conducted to: a, early Miocene deposits in the South Island of New Zealand (where the first evidence for terrestrial mammals have been found; ARC Discovery Grant; <https://en.wikipedia.org/w/index.php?title=St_Bathans_Fauna&fbclid=IwAR0xeAJwn3KoU_qm0gykaVvVpWOTaylWEg9ZuGQKnf3BFYr-5W40JylSFf4>); b, probable Miocene fossil-rich amber deposits in northeastern Queensland (the first amber discovered in Australia; ARC Discovery Grant); c, early Cretaceous deposits from Lightning Ridge which produced Australia’s first-known Mesozoic mammals (ARC Small Grant); d, Plio-Pleistocene deposits in the Leichhardt River region, northern Queensland (ARC Small Grant).

***Other non-palaeontological research programs*.** The primary focus here has been on ‘DeExtinction’ efforts involving the Thylacine (*Thylacinus cynocephalus*), and the Southern Grastric-brooding Frog (*Rheobatrachus silus*). The TED talk I gave and those of others contributing to the TEDx DeExtinction event held on 15 March 2013 in Washington DC can be accessed at (<http://www.ted.com/talks/michael_archer_how_we_ll_resurrect_the_gastric_brooding_frog_the_tasmanian_tiger.html>) posted on the TED talks website. A newspaper story by Nicky Phillips that appeared in the Sydney Morning Herald on 15 March, 2013 (p. 1) is available online: <http://www.smh.com.au/environment/animals/extinct-frog-hops-back-into-the-gene-pool-20130315-2g68x.html>. Another by Lisa Clauson that explores a range of issues related to the Lazarus Project appeared in various media on 22 June, 2013: <http://www.smh.com.au/national/waking-the-dead-20130617-2ocz4.html>. Qantas Magazine also did a short feature article on the Lazarus Project: <http://travelinsider.qantas.com.au/bright_ideas_scientist_mike_archer_explores_de-extinction.htm?alt_cam=au:qf:edm:july13:ti:pod3:ht> . A documentary about the Lazarus Project is in preparation by Visionquest Pty Ltd but has not yet been released. There is an earlier (2002) Discovery Channel documentary about the Thylacine Project (*The End of Extinction: Cloning the Tasmanian Tiger*, produced by Becker Entertainment, Directed by Patrick O’Neill): <http://www.youtube.com/watch?v=S3gNW7LbO0M>. A debate between me and the Executive Editor of Scientific American about the merits of deExtinction occurred on the Canadian Broadcasting Corporation is available (<http://www.cbc.ca/toothandclaw/popupaudio.html?clipIds=2401773888>). *Time Magazine* announced that the Lazarus Project was one of world’s 25 best ‘inventions’ for 2013 (<http://phys.org/news/2013-11-lazarus-frog-resurrection.html>) and one of the five featured online (<http://techland.time.com/2013/11/14/the-25-best-inventions-of-the-year-2013/>). The Australian Science Media Centre has also listed the Lazarus Project as one the top 10 science stories for 2013 (<http://www.smc.org.au/2013/12/top-ten-science-stories-2013/#frog>). The National Geographic Society (NGS) devoted the cover story of their April 2013 edition of *National Geographic Magazine* to deExtinction with content about this subject on their website at <http://www.nationalgeographic.com/deextinction>. The ABC Science Show recorded a lecture I gave in Hobart in 2019 on this topic (<https://www.abc.net.au/radionational/programs/scienceshow/identifying-cholera-and-de-extinction---should-we-bring-back-ex/11823550>). So far we have only published one technique paper in relation to our Lazarus Project because we were keeping the research quiet until we discovered just how far we could get. The Revive & Restore organisation (part of the Long Now Foundation) and the National Geographic Society enticed many of us working on deExtinction projects around the world to come out from our ‘closets’ so to speak, to meet in October 2012 and mid March 2013, to discuss with each other about our goals, aspirations and challenges. This has led to new multi-institutional collaborations that should accelerate progress on projects currently underway. Methodological publications are now in preparation.

Involvement in international conservation programs (Committee Member of SULi of the IUCN—focused on conservation through sustainable use of native species programs) have lead to many publications and public advocacy for CSU programs, e.g.: <http://www.kangarooindustry.com/supporters/scientific/>; <https://www.iucn.org/crossroads-blog/201903/banning-exotic-leather-bad-reptiles>; and <https://doi.org/10.1111/cobi.13329>.

**Publications**

Part of my publication record is captured by Google Scholar (<https://scholar.google.com.au/citations?user=QLsZoEYAAAAJ&hl=en>). I have published over 320 peer-reviewed articles and 14 books which according to Google Scholar have been cited 9185 times, resulting in an h-index of 51, and an i10-index of 191 (April 2019).

The field of Vertebrate Palaeontology is a relatively small field compared with others such as ecology or marine biology hence citations are accordingly fewer in number. However, because the contributions per paper last far longer (e.g., the immortality of nomenclature etc.), citations accumulate over a longer period than they may do for some other disciplines.

In the case of most publications listed below, the order of authors typically reflects the level of contribution to the paper and/or the underlying research work with the first author having overall responsibility for the content and form of the paper.

In the case of publications arising from thesis work, the student is normally first author if they provide at least 50% of the work. Names underlined are Archer’s honours and postgraduate students, postdoctoral fellows and research staff.

1. **BOOKS**

|  |  |
| --- | --- |
|  | **Books (A1)** NB: authored, not edited books |
|  | 1. **Archer,** **M**., Beale, R. 2005. *Going Native*. Hodder Headline: Sydney.
2. **Archer, M**., Brammall, J., Field, J., Hand, S.J., Hook, C. 2002. *Australia’s Evolution: 100 Million Years of Change*. Australian Museum: Sydney.
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**Journal articles**

***Selected C1 publications featured by peer-reviewed journals include:***

* Gillespie, A.K., **Archer, M.**, Hand, S.J., 2020. *Lekaneleo*, a new genus of marsupial lion (Marsupialia, Thylacoleonidae) from the Oligocene–Miocene of Australia, and the craniodental morphology of *L. roskellyae*, comb. nov. *Journal of Vertebrate Paleontology*, DOI: 10.1080/02724634.2019.1703722. (Reconstruction in paper used for the cover of the printed issue)
* Gillespie, A.K., **Archer, M.**, Hand, S.J., 2017. A new Oligo-Miocene marsupial lion from Australia and revision of the family Thylacoleonidae. *Journal of Systematic Palaeontology* <https://doi.org/10.1080/14772019.2017.1391885>. (Cover story for that issue of JSP. Also selected as one of the 5 leading articles published in the *J. Syst. Palaeon.*; <https://think.taylorandfrancis.com/svp-article-collection-paleontology-journals/?utm_source=TFO&utm_medium=cms&utm_campaign=JOI11261>).
* Travouillon, K.J., Louys, J., Price, G.J., **Archer, M.**, Hand, S.J., Muirhead, J., 2017. A review of the Pliocene bandicoots of Australia, and descriptions of new genus and species. *Journal of Vertebrate Paleontology* November 2017. (Feature/Cover article for that issue of *JVP*)
* Pian, R., **Archer, M.**, Hand, S.J, 2013. A new, giant platypus, *Obdurodon tharalkooschild* sp. nov. (Monotremata, Ornithorhynchidae), from the Riversleigh World Heritage Area, Australia. *Journal of Vertebrate Paleontology* 33: 1255-1259. (Cover story for that issue of *JVP*)
* Louys, J., Aplin, K., Beck, R.M.D., **Archer, M**. 2009. Cranial anatomy of Oligo-Miocene koalas (Diprotodontia: Phascolarctidae): stages in the evolution of an extreme leaf-eating specialization. *Journal of Vertebrate Paleontology* 29: 981-992 (Cover story for that issue of *JVP*)
* Lee, M.S.Y., Hutchinson, M.N., Worthy, T.H., **Archer, M.**, Tennyson, A.J.D., Worthy, J.P., Scofield, R.P. 2009. Miocene skinks and geckos reveal long-term conservatism of New Zealand's lizard fauna. *Biology Letters* doi:10.1098/rsbl.2009.0440 (Cover story for that issue of *Biology Letters*)
* Hand, S.J., Weisbecker, V., Beck, R.M.D., **Archer, M.**, Godthelp, H., Tennyson, A.J.D., Worthy, T.H. 2009. Bats that walk: a new evolutionary hypothesis for the terrestrial behaviour of New Zealand's endemic mystacinids. *BMC Evolutionary Biology* 2009, 9: 169 doi:10.1186/1471-2148-9-169 (‘Featured Article’ and ‘Highly Accessed’)
* Black, K., **Archer, M.**, Hand, S.J., Godthelp, H. 2010. First comprehensive analysis of cranial ontogeny in a fossil marsupial—from a 15-million-year-old cave deposit in northern Australia. *Journal of Vertebrate Paleontology* 30: 993-1011 (Cover story for that issue of *JVP*)
* **Archer, M.**, 2002. Confronting crises in conservation: a talk on the wild side. Pp. 12-52 in ‘*A zoological revolution: using native fauna to assist in its own survival*’, ed. D. Lunney & C. Dickman. Australian Museum and the Royal Zoological Society of New South Wales: Sydney (Cover story for that volume)
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**Journal articles (C1)**

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5. **Archer, M.**, Hand, S.J., 2017. Riversleigh World Heritage Project: 41 years of research, significance, strategies and challenges. Presentation in *Grube Messel Symposium, Darmstadt, Germany*. November, 2016.
6. Thorn, K.M., Nielsen, C.I., **Archer, M.**, Hutchinson, M.N., Lee, M.S.Y., 2017. Dating Australian skink diversification: fossil *Sphenomorphus* and *Egernia* Group skinks from Riversleigh World Heritage Area (Queensland, Australia). *Geological Society of Australia, Earth Sciences Student Symposium, Adelaide; spoken paper.*
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9. Salisbury, S.W., Tennyson, A.J.D., Scofield, R.P., Hand, S.J., **Archer, M.**, De Pietri, V.L., Worthy, J.P., Barham, K., Worthy, T.H., 2017. Abstract volume for the *Conference on Australian Vertebrate Evolution, Palaeontology & Systematics, Queenstown, New Zealand; spoken paper.*
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**Research students** (representative)

**Current (as at April 2019)**

1. Antonia Parker (Hons candidate) – Palaeontology and palaeoecology of the LD94 Middle Miocene faunal assemblage of Riversleigh.
2. Timothy Churchill (Hons candidate) – First known lower dentition for the family Malleodectidae in a new taxon from the Early Miocene of Riversleigh.
3. Naomi Machin (MPhil candidate) – Assessing species diversity in the burramyid genus *Burramys* spanning the Late Oligocene to Middle Miocene of Riversleigh.
4. Corey Bennetts (PhD candidate) – The Middle Cretaceous faunal assemblage from Hazel Creek, northwestern Queensland.
5. Daniel Traub (MSc candidate)—A Mesozoic mammal from northern Australia and other Early Cretaceous vertebrates from northwestern Queensland
6. Chris Palmer (PhD candidate) – Palaeocommunity dynamics and evolution during the mid to late Cainozoic
7. Georgia Soares (PhD candidate)—Precambrian organisms from Western Australia
8. Mathew Stewart (PhD candidate) – Palaeofauna from the Arabian Peninsula, Africa
9. [Bok Khoo](http://www.bees.unsw.edu.au/bok-khoo) (MPhil candidate) – New zygomaturine from the Plio/Pleistocene of North Queensland
10. James Strong (PhD candidate) – Invertebrates and extraordinary preservation of soft tissues at Riversleigh
11. Melissa Murray (MSc candidate) – Researching strategies for communicating the importance of mineralogy to academia as well as the general public.

**Completions**

1. [Ada Klinkhamer](http://www.bees.unsw.edu.au/ada-klinkhamer) (Hons) – Plio/Pleistocene rodents in the genus Leggadina
2. Adam Morrell (Hons) – Evolution of Australian marsupials
3. Adrian di Qual (MSc) – Investigation into the experiences of keeping Sugar Gliders as pets
4. [Anna Gillespie](http://www.bees.unsw.edu.au/anna-gillespie) (MPhil) – Evolution of Marsupial Lions
5. [Anna Gillespie](http://www.bees.unsw.edu.au/anna-gillespie) (PhD) – Evolution and biodiversity of the Thylacoleonidae
6. Anne Musser (PhD) – Evolution and morphology of monotremes
7. Anthony Smith (Hons) – Analysis of the relationships between dental morphology and feeding behaviours in *Antechinus*
8. Ben Kear (Hons) – Analysis of an associated skeleton of a balbarine kangaroo from Riversleigh, northwestern Queensland.
9. Ben Kear (PhD) – Studies on the Mesozoic marine reptile fauna of Australia
10. Bernie Cooke (PhD) – Evolution and palaeobiodiversity of the kangaroos
11. Bill Koutsamanis (Hons) – Testing the field efficiency of electronically recording frog calls
12. Blake Dickson (Hons) – Structure, function & evolution of the inner ear of marsupials
13. Brian Mackness (PhD candidate; deceased before submission) – Pliocene faunas of Australia—new taxa and reviews of others
14. Camilo Lopez-Aguirre (MSc) – Sparassodontan ecology and extinction
15. Cassandra Davies (Hons) -- Analysis of postcranial morphology in Miocene bats from Riversleigh
16. [Chris Palmer](http://www.bees.unsw.edu.au/chris-palmer) (Hons) – Biodiversity, ecology & evolution of Planigale marsupials
17. Corey Bennetts (Hons) – Fauna and geology of TP Site, Riversleigh
18. Daniel Natusch (MPhil) – Distribution and conservation of Green Pythons in Australia
19. David Read (PhD) – Ecology of species of *Planigale* in arid western New South Wales
20. Elizabeth Smith (PhD) – The evolution of Cretaceous turtles of Australia
21. Emma Hall (Hons) – The evolutionary diversity and relationships of Miocene koalas
22. Greg Richards (PhD) – Ecology of forest bats in eastern Australia
23. Hamish Craig (Hons) – Changes in the diet of *Thylacoleo carnifex* through life
24. Harry Parnaby (PhD) – Systematic revision in nyctophiline bats (Vespertilionidae, Chiroptera) in Australia
25. [Hayley Bates](http://www.bees.unsw.edu.au/hayley-bates) (Hons) – The evolutionary diversity and history of Musky Rat-kangaroos
26. [Hayley Bates](http://www.bees.unsw.edu.au/hayley-bates) (PhD) – Ecological constraints keeping Burramys parvus in the alpine zone
27. Isabelle Purdy (Hons) – Cats and Quolls: a comparison of experiences as domestic pets
28. [Jacqueline Nguyen](http://www.bees.unsw.edu.au/jackie-nguyen) (Hons) – Dromornithid birds from the Riversleigh World Heritage deposits
29. [Jacqueline Nguyen](http://www.bees.unsw.edu.au/jackie-nguyen) (PhD) – Palaeo history of passerine birds in Australia
30. Jeanette Muirhead (PhD) – The evolutionary history and ecology of bandicoots & thylacines
31. Jenny Brammall (Hons) – New Miocene species of Burramys and other small possums from Riversleigh, NW Queensland
32. [Jess Lyons](http://www.bees.unsw.edu.au/jessica-lyons) (MSc) – Research into the smuggling trade of Green Pythons in Indonesia
33. J-H Wu (Grad Dip) – Morphometrics of Riversleigh hipposiderid postcranials
34. John Scanlon (PhD) – The diversity, ecology and evolution of Australian snakes
35. Julien Louys (Hons) – New fossil koalas from Riversleigh
36. Julien Louys (PhD) – Ecology and extinction of southeast Asia’s Megafauna
37. Karen Black (Hons) – The diversity, ecology and evolution of koalas
38. Karen Black (PhD) – The evolution and palaeodiversity of diprotodontoids
39. Karen Roberts (Hons) – The taphonomy and geological context of Price Is Right Site, Riversleigh, World Heritage Area
40. Karen Roberts (PhD) – The evolution and palaeodiversity of Australia’s ringtail possums
41. Kelly Carbery (Hons) – Systematic revision of the species of pseudocheirid ringtails from Riversleigh, Queensland
42. Ken Aplin (PhD) – Structure and function of the marsupial basicranium
43. [Kenny Travouillon](http://www.bees.unsw.edu.au/kenny-travouillon) (Hons) – Multivariate Analyses of the Riversleigh Local Faunas
44. [Kenny Travouillon](http://www.bees.unsw.edu.au/kenny-travouillon) (PhD) – The palaeoecology of Australia’s evolving environments
45. Kerry Nettle (Hons) – Diversity and relationships of ringtail possums in the Oligo-Miocene
46. Kirsten Crosby (Hons) – The evolution of Australia’s small possums
47. Kirsten Crosby (PhD) – The evolution and radiation of Australis’s phalangerid possums
48. Kristen Parmeter (Hons) – Stratigraphy and petrography of the Middle Miocene AL90 cave, Riversleigh
49. Lorraeme Shume (Hons) – Postcranial anatomy of *Nimbacinus dicksoni*
50. Lyndall Dawson (PhD) – History of mammals in the Wellington Cave deposits of NSW
51. Manisha Hari Rajan (Hons) – Form & function of the strange auditory system of acrobatid marsupials
52. Michael Stein (PhD) – Palaeobiodiversity, function & ecology of crocodiles in Australia
53. Mina Bassarova (Hons) – Diversity and relationships of ringtail possums in the genus Paljara
54. Mina Bassarova (PhD) – Use of structural & functional morphology in palaeoecology
55. Miranda Gott (Hons) – Notoryctids from the Riversleigh World Heritage fossil deposits.
56. Natalie Saville (Hons) – Using noseleaves to unravel the evolutionary relationships of bats
57. Paul Willis (PhD) – Evolution of Australia’s crocodilians
58. Peter Ampt (PhD) – Research into strategies for sustainably harvesting kangaroos
59. Pip Brewer (PhD) – Evolution of Australia’s wombats from the Oligocene to the Pliocene
60. Pippa Binfield (Hons) – New dasyurids and phalangeridans from the Kutjamparpu and Riversleigh Local Faunas
61. Prue Fabian (Hons) – Evolutionary diversity of acrobatid possums from Riversleigh
62. Rebecca Pian (Hons) – Revision of ornithorhynchids and new species of Obdurodon
63. Rick Arena (Hons) – Geology and palaeontology of the Dunsinane Site, Riversleigh World Heritage area, NW Queensland
64. Rick Arena (PhD) – Geology of the World Heritage area of Riversleigh, NW Queensland
65. [Robin Beck](http://www.bees.unsw.edu.au/robin-beck)(PhD) – Evolutionary relationships of Australia’s most distinctive marsupials
66. Scott Hocknull (PhD) – History of mammal evolution in the Pleistocene of Queensland
67. Shimona Kealy (Hons) – Molecular/morphological phylogeny of carnivorous marsupials
68. Steve Salisbury (Hons) – A new early Eocene crocodile from Murgon, southeastern Queensland
69. Steve Salisbury (PhD) – Evolution of Australia’s crocodilians
70. Steve Van Dyck (PhD) – Systematics and ecology of dasyurids in the genus Antechinus
71. Steve Wroe (Hons) – Revision of the propleopine macropodoids from the Riversleigh World Heritage deposits
72. Suzanne Hand (Hons) – Use of electrophoresis to test understanding about species diversity in the vespertilionid genus *Miniopterus*
73. Tahneal Hawke (Hons) – Assessment of dietary components of a lower altitude population of the Mountain Pygmy-possum, *Burramys parvus*.
74. Tim Flannery (PhD) – Evolutionary history and systematics of early kangaroos
75. Troy Myers (Hons) – Ilariids from the fossil deposits of Riversleigh and biocorrelation with late Oligocene deposits in central Australia
76. Troy Myers (PhD) – Evolution of vombatiform marsupials from Riversleigh, NW Queensland
77. Tyler King (Hons) – Fossil and living emballonurid bats from Riversleigh
78. Uphar Chamoli (MSc)-- Biomechanics of felid skulls using Finite Element Analysis
79. Vera Weisbecker (PhD) – Structural morphology and function in the marsupial forelimb
80. Walter Boles (PhD) – Evolutionary history of Australian birds with new taxa described from Murgon and Riversleigh
81. Zac Kirkham (Hons) – Cranial and dental description of a new Miocene kangaroo from Encore Site, Riversleigh, NW Queensland