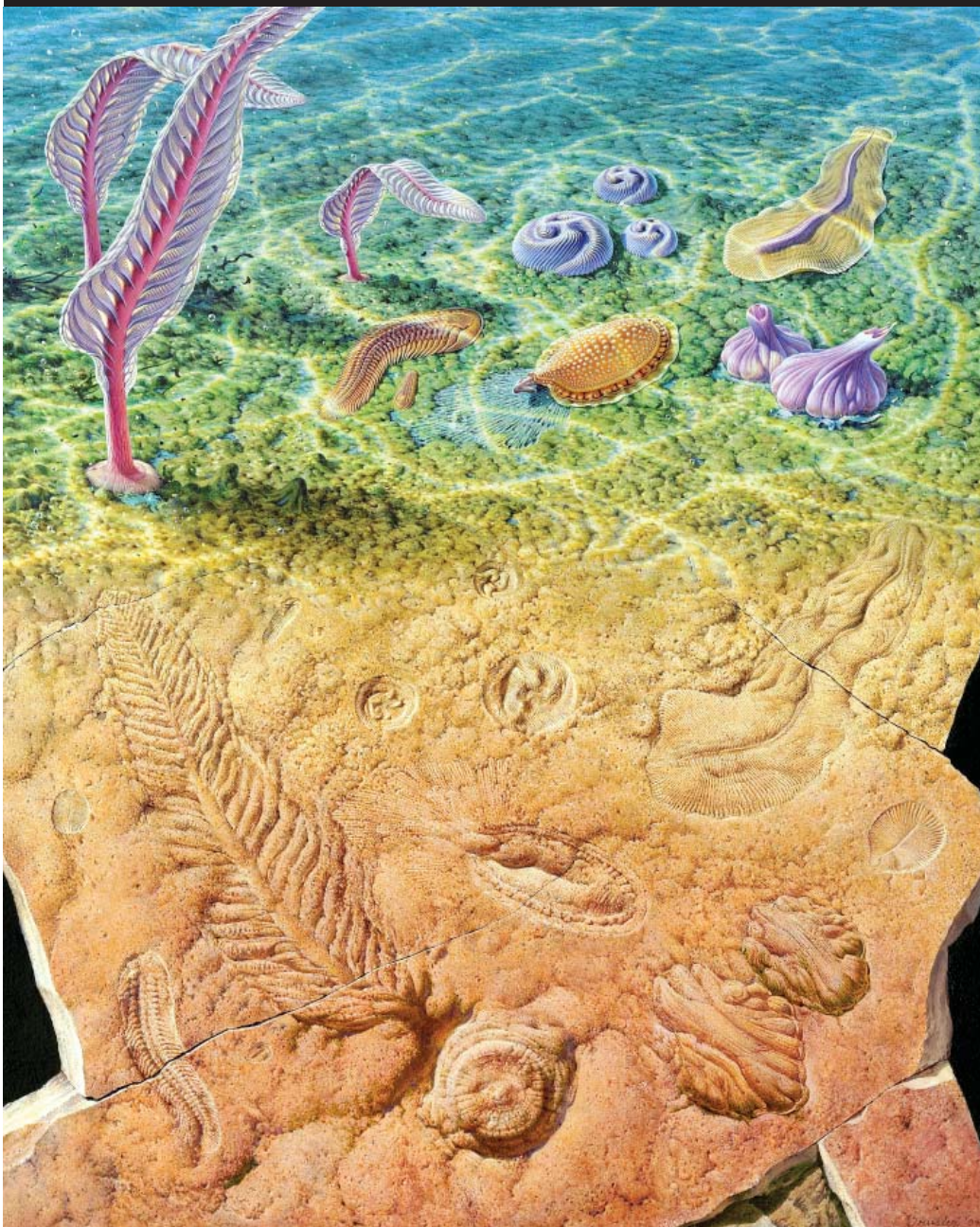


Curriculum Vitae

PATRICIA VICKERS - RICH



Ediacarans, the First Animals on Earth (courtesy of
Australia Post; artist P. Trusler)

PATRICIA VICKERS - RICH

(a) Personal Details

Professor of Palaeontology (Personal Chair)
School of Geosciences
Monash University
Clayton, Victoria 3800, Australia

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email: Pat.Rich@monash.edu

Citizenship: Australia and U.S.A. (dual citizen)
Marital Status: Spouse, Dr. Thomas H. Rich, 2 children

(b) Formal Qualifications:

Columbia University, New York (1973), PhD. in Geology.
(THESIS: The History of Australia's non-passeriform birds. Part I: Antarctic dispersal routes, plate tectonics, and the origin of Australia's non-passeriform avifauna. Part II: The Dromornithidae, a family of large, extinct ground birds endemic to Australia - systematics and phylogenetic considerations)

Columbia University, New York (1969), M.A. in Geology.
(THESIS: New World Vultures with Old World Affinities: A review of fossil and recent Gypaetinae of both the Old and the New Worlds)

University of California, Berkeley (1966), B.A. in Paleontology.

Other Relevant Awards, Distinctions, and Scholarships

- **Victorian Premier's Award for Science Writing**, 2007-2009 for *The Rise of Animals. Evolution and Diversification of the Kingdom Animalia* by M. Fedonkin, J. Gehling, K. Grey, G. Narbonne & P. Vickers-Rich. Johns Hopkins University Press, Baltimore (\$15,000).
- **Queensland Premier's Award for Science Writing**, 2007-2008, Short List for *The Rise of Animals* (see above).
- **Japan Society for the Promotion of Science Scholar**, Kyoto University, October 2005-February 2006.
- **The Roy Wheeler Medallion**, Excellence in Field Ornithology (Bird Observers Club, Australia), 2005 (one of 10, Premier Presentation).
- **The Whitley Medal**, Royal Zoological Society of New South Wales, for *Magnificent Miharungs* with Peter Murray (best book on the natural history of Australian animals published in 2004).

Curriculum Vitae

- **National Geographic/Toyota Field Vehicle Award, 2002 (one of the 17 given worldwide).** New Toyota Land Cruiser valued at \$ 85,000
- **Eureka Award** of the New South Wales University Press (A\$10,000) for T. H. Rich and P. Vickers-Rich, 2000, *Dinosaurs of Darkness*, Indiana University Press, Bloomington.
- **Japan Society for the Promotion of Science Scholar** (Dec. 2000 - Jan. 2001)
- **Chairman's Award** (with Dr T. H. Rich), **Committee for Research and Exploration, National Geographic Society**, Washington, Nov. 2000, for accumulation of "an extraordinary record of life from the Age of Dinosaurs in Australia ranging from dinosaurs to mammals. This has completely revised our understanding of Mesozoic life at high latitudes. In recognition of their tireless and virtually superhuman efforts to gather and interpret fossils of great significance, this award is given." (\$US15,000)
- **Crosbie Morrison Medal & Annual Lecture** , for excellence in science communication, 1998
- **Elected member of the Explorers Club**, New York, 1998, current
- **Telstra Business Women's Award** (Victorian State Finalist - one of 5) (1997)
- **Elected Member, International Academy of Sciences of Nature & Society**, Moscow Branch 1996, current
- **President Elect, Australasian Association of Palaeontologists**, 1994-1995
- **Key to the City of Mesa**, Arizona, for the *Great Russian Dinosaurs Exhibition*, 1995
- **The Whitley Medal**, Royal Zoological Society of New South Wales, for *Wildlife of Gondwana* (best book on the natural history of Australian animals published in 1994)
- Victorian Nominee (with T. H. Rich) for the **von Muller Medal** (only one per state), 1994
- **Eureka Award**, New South Wales University Press, Science Book of the Year Prize, for *Wildlife of Gondwana*, 1993 (\$10,000)
- **Michael Daley Award for Excellence in Science, Technology & Engineering Journalism** in the category "Best Entry by a communicator not a Professional Journalist or Media Photographer 1993 for "The Dinosaurs that Came in from the Cold", *QANTAS Airways Magazine*, Jan.-Feb., 1993, pp. 38-44
- **Cover Article for Time Australia Magazine**, 9 August 1993, *Dinosaurs Down Under. Coming In From the Cold.*
- **Australian Academy of Science Scholar**, Peoples' Republic of China (1979, 1998)
- **American Association of University Women, Graduate Fellowship**, Columbia University, N. Y.), 1971
- Elected to **Sigma Xi** (National Science Honorary Organization), 1970
- **Columbia University Graduate Fellowship**, 1968-1970
- Elected to **Phi Beta Kappa**, 1966, current
- **Honours at Entrance**, University of California, Berkeley, 1962

(c) **Present Appointment:**

Professor (Personal Chair in Palaeontology), Monash University (Australia), Departments of Earth Sciences and Botany/Zoology: November 1995-1997; Earth Sciences Department and now School of Geosciences 1997 to present.

Foundation Director, Monash Science Centre, Monash University, 1993-present.

Research Associate, Laboratory of Precambrian Organisms, Paleontological Institute, Moscow, 2004 - present.

Research Associate, Museum Victoria, current.

(d) **Other appointments and experience:**

Elected Member, Monash University Council

2010 - 2012.

Director and Organizer, The Artist and the Scientists Exhibition,

2010 - ongoing.

Co-leader and Corresponding Secretary, United Nations International Geological Correlation Project 587 (2010-2015), Identity, Facies and Time - The Ediacaran (Vendian) Puzzle.

Co-leader and Corresponding Secretary, United Nations International Geological Correlation Project 493 (2003-2009), The Rise and Fall of the Vendian (Ediacaran) Biota. Neoproterozoic Earth (Climate, Geography, Ocean Chemistry and the Rise of Animals).

Director and Organizer, The Beginning of Animalia (the Ediacarans) Exhibition (cooperative project of Monash University, the South Australian Museum, the Paleontological Institute of the Russian Academy of Science and the Namibian Geological Survey), venue, Japan, 2006.

Director, Wildlife of Gondwana Exhibition, 2002-present.

Director, Dinosaurs of Darkness Exhibition, 2000 - present.

Director, The Great Russian Dinosaurs Exhibition, 1993-1997

Deputy Head, Earth Sciences Department, Monash University, 1992 - 1993.

Research Associate, Queen Victoria Museum, Launceston, appointed 1995.

Reader, Monash University (Australia), Departments of Earth Sciences, and Ecology and Evolutionary Biology, 1989 - 1995

Senior Lecturer, Monash University (Australia), Departments of Earth Sciences and Zoology, January 1984-1989.

Research Associate, Department of Ornithology, The Museum of Victoria, appointed 1977.

Research Associate Department of Vertebrate Palaeontology, Museum Victoria, 1998-present.

Lecturer, Monash University, Department of Earth Sciences, June 1976-December 1983.

Assistant Professor and Associate Curator, Texas Tech University, Department of Geosciences, and the Texas Tech Museum, Lubbock, Texas: Sept. 1973-May 1976.

Field Ecologist, Organization for Tropical Studies, Costa Rica,

Summer 1970 (competitive position for 20 participants from the entire USA funded by the National Science Foundation)

Teaching Assistant, Department of Geology, Columbia University, New York, 1968-1969.

Zooarchaeologist, Nevada State Museum, Reno, Nevada, 1966-1967.

Research Assistant, Department of Paleontology, University of California, Berkeley, California, 1963-1965.

Field Assistant, Hell Gap Expedition, Harvard University, Peabody Museum, Gurnsey, Wyoming, 1963-1964.

(e) Research:

(1) Published Scholarly Works

(a) Books

Vickers-Rich, P., in final prep. *The Flyer. Biography of Academician Boris Sergeevich Sokolov. Founder of Precambrian Palaeobiology in Russia.* Book to be submitted to Cambridge University Press by the end of 2011.

Trusler, P., Vickers-Rich, P. & Rich, T. H., 2010. *The Artist and the Scientists. Bringing Prehistory to Life.* Cambridge University Press, Cambridge: 308 pp.

Fedonkin, M. A., J. Gehling, K. Grey, G. Narbonne, & P. Vickers-Rich, **2007.** *The Rise of Animals: Evolution and Diversification of the Kingdom Animalia.* Johns Hopkins Press, Washington: 326 pp. (**Victorian Premier's Award for Science Writing, 2007-2009; Shortlist Queensland Premier's Prize for Science Writing 2007-2008**).

Vickers-Rich, P. & P. Komarower, eds., **2007.** *The Rise and Fall of the Vendian (Ediacaran) Biota.* Special Contribution 286, Geological Society of London. Proceedings volume for three symposia of IGCP 493 - Prato, Italy 2004 in conjunction with the International Geological Congress in Florence; two in Kyoto at Kyoto University, Japan 2006): 486 pp.

Murray, P. & P. Vickers-Rich., **2004.** *Magnificent Mhirungs. The Colossal Flightless Birds of the Australian Dreamtime.* Indiana University Press, Indianapolis, 394 pp. (**Whitley Medal 2004**).

Rich, T. H. & P. Vickers-Rich, **2000, 2001.** *Dinosaurs of Darkness.* Indiana University press, Bloomington and Allen & Unwin, Sydney. (**Eureka Prize, 2001**).

Tomida, Y., T. H. Rich & P. Vickers-Rich (eds), **1999.** Proceedings of the Second Gondwanan Dinosaur Symposium. *National Science Museum Monograph*, 15, Tokyo: 296 pp.

Vickers-Rich, P. & T. H. Rich, **1999.** *Wildlife of Gondwana. Dinosaurs & Other Vertebrates from the Ancient Supercontinent.* Indiana University Press, Indianapolis, 304 pp.

Roazanov, A. Y., P. Vickers-Rich & C. Tassell (eds.), **1997.** *Evolution of the Biosphere.* Records of the Queen Victoria Museum and Art Gallery, Launceston, 104: 108 pp

Rich, P. V., Y. P. Zhang, M. C. Chow, B. Y. Wang, P. Komarower, J. H. Fan, R. Sloss, J. K. M. Moody & J. Dawson, **1994.** *A Chinese- English and English-Chinese Dictionary of Vertebrate Palaeontology Terms.* Monash Science Centre, Melbourne, 358 pp.

Vickers-Rich, P. & T. H. Rich, **1993.** *Wildlife of Gondwana*, Reed Books

- International, Sydney, 286 pp. (**Eureka Prize, 1993-94, Whitley Medal, 1994**).
- Vickers-Rich, P., J.M. Monaghan, R.F. Baird & T.H. Rich, **1991, 1992, 1996**, 1st & 2nd editions), (eds.), *Vertebrate Palaeontology of Australasia*. Pioneer Design Studio in cooperation with the Monash University Publications Committee, Melbourne, 1434 pp. + appendix.
- Rich, P.V., Y.P. Chang, M.C. Chow, B.Y. Wang, R. Sloss, J.K.M. Moody, J. Dawson & P. Komarower **1987**. *English-Chinese/Chinese-English Dictionary of Vertebrate Palaeontology Terms*. Monash Univ. Offset Printing Unit, Clayton, 660 pp.
- Rich, P.V. & E.M. Thompson, (eds.), **1982**. *The Fossil Vertebrate Record of Australasia*. Monash Univ. Offset Printing Unit, Clayton, 759 pp. (**Whitley Certificate of Commendation**, Roy. Zool. Soc. NSW, 1983).

(b) *Refereed Journal Articles*

1. Rich, T. H.V. & P. V. Rich, **1971**. *Brachyerix*, a Miocene hedgehog from western North America with a description of the tympanic regions of *Paraechinus* and *Podogymnura*. *Amer. Mus. Novitates* 2477 : 1-58.
2. Feduccia, A. & P.V. Rich, **1972**. Avifauna from the Keim Formation, Brown County, Nebraska. In : Skinner M.F. & C.W. Hibbard, eds. Early Faunas of North Central Nebraska. *Bull. Amer. Mus. Nat. Hist.* 148 (1) : 72-76.
3. Rich, P. V., **1972**. A fossil avifauna from the upper Miocene Beglia Formation of Tunisia. *Notes Serv. Géol. Tunisien* 35 (5) : 29-66.
4. Cracraft, J. & P.V. Rich, **1972**. The systematics and evolution of the Cathartidae in the Old World Tertiary. *Condor* 74 : 154-156.
5. Jones, C. Eugene & P.V. Rich, **1972**. Ornithophily and extrafloral color patterns in *Columnea florida* Morton (Gesneraceae). *Bull. Soc. Calif. Acad. Sci.*, Los Angeles 71 (3) : 113-116.
6. Rich, P. V., **1973**. A mammalian convergence on the avian tarsometatarsus. *Auk* 90 (3) : 676-677.
7. Rich, P. V., **1974**. Significance of the Tertiary avifaunas from Africa with emphasis on a mid-to late-Miocene avifauna from southern Tunisia. *Ann. Geol. Surv. Egypt* 4 : 167-210.
8. Rich, P.V. & R.H. Green, **1974**. Footprints of the birds at South Mount Cameron, Tasmania. *Emu* 74 (4) : 254-248.
9. Rich, P. V., **1975**. Antarctic dispersal routes, plate tectonics and the origin of Australia's non-passeriform avifauna. *Mem. Natl. Mus. Vict.* 36 : 62-126.
10. Rich, P. V. **1975**. Changing continental arrangements and the origin of Australia's non-passeriform continental avifauna. *Emu* 75 (3) : 97-112.
11. Rich, Pat Vickers, **1976**. The history of birds on the island continent Australia. *Proc. 16th Internatl Ornith. Cong.*, Aust. Acad. Sci.: 53-65.
12. Rich, P.V. & D.J. Bohaska, **1976**. The world's oldest owl: a new strigiform from the Palaeocene of south-western Colorado. In: Olson, S.L. (ed), *Collected Papers in Avian Paleontology Honoring the 90th Birthday of Alexander Wetmore*. *Smithsonian Contrib. Paleobiol.* 27 : 87-94.
13. Rich, P.V. & E. Gill, **1976**. Possible dromornithid footprints from Pleistocene dune sands of southern Victoria, Australia. *Emu* 76 (4) : 221-223.
14. Rich, P.V. & H.R. Marino-Hadiwardoyo, **1977**. *Protoplotus beauforti*, the world's oldest member of the bird family Anhingidae. *Berita Direkt Geologi/Geosurvey Newsletter* 9 (9) : 101-102.
15. Rich, P.V. & A.R. McEvey, **1977**. A new owlet-nightjar from the early- to mid-Miocene of eastern New South Wales. *Mem. Natl. Mus. Vict.* 38 : 247-253.
16. Rich, P.V. & R.J. Scarlett, **1977**. Another look at *Megaegotheles*, a large owlet nightjar

- from New Zealand. *Emu* 77 (1) : 1-8.
17. Tedford, R.H., M. Archer, A. Bartholomai, M. Plane, N.S. Pledge, T. Rich, P. Rich & R.T. Wells, **1977**. The discovery of Miocene vertebrates, Lake Frome area, South Australia. *Bur. Min. Res. J. Geol. Geophys.* 2 : 53-57.
 18. Rich, P. V., **1978**. A range extension of *Neophrontops americanus* (Aves, Accipitridae) from the late- into the middle-Pleistocene (Irvingtonian) of North America. *Condor* 79 (4) : 494-495.
 19. Rich, P. V., **1978**. Determination of the mode of accumulation of Pliocene bird bones in western Arizona. *Amer. Phil. Soc. Yrbk.* Grant 7440.
 20. Rich, P.V., A. McEvey & R. Walkley, **1978**. A probable Masked Owl (*Tyto novaehollandiae*) from Pleistocene deposits along Cooper Creek, South Australia. *Emu* 78 (2) : 88-90.
 21. Rich, P. V., **1979**. Fossil birds of Old Gondwanaland: a comment on drifting continents and their passengers. In: Boucot, A. and J., Gray (eds) *Historical Biogeography, Plate Tectonics, and the Changing Environment*. 37th Biol. Colloquium, Oregon State University: 321-332.
 22. Rich, P. V., **1979**. The Dromornithidae, a family of large, extinct ground birds endemic to Australia. *Bur. Min. Res. Bull.* 184, Canberra, 196 pp.
 23. Rich, P.V. & R. Berra, **1979**. Bird history - the first one-hundred million years: just a beginning. *Aust. Nat. Hist.*: 392-397.
 24. Rich T.H., P.V. Rich., R.E. Fordyce, P. Gatehouse & R. Scarlett, **1979**. A deceptive Quaternary vertebrate fossil site on the Waipara River, north Canterbury, New Zealand. In: Anderson A. (ed.) *Birds of a Feather: Osteological and Archaeological Papers from the South Pacific in Honour of R.J. Scarlett*. *New Zealand Archaeol. Assoc. Monogr.* 11, BAR Internatl. Serv. 62 : 25-52.
 25. Rich, P. V., **1980**. A preliminary report on the fossil avian remains from late-Tertiary sediments at Langebaanweg (Cape Province), South Africa. *S. Af. J. Sci.* 76 (4) : 166-170.
 26. Rich, P. V., **1980**. "New World" Vultures with Old World Affinities? A Review of the Fossil and Recent Gypaetinae (Aves, Accipitridae). *Contrib. Vert. Evol.* M. Hecht, F. Szalay (eds), Karger, Basel 5: 115 pp.
 27. Rich, P. V., **1980**. The Australian Dromornithidae: a group of extinct large ratites. *Contrib. Sci. Nat. Hist. Mus. Los Angeles* 330 : 93-104.
 28. Rich, P.V. & A. McEvey, **1980**. A fossil Plains Wanderer (Family Pedionomidae) from fire hole deposits in south-eastern Victoria, Australia. *Contrib. Sci. Nat. Hist Mus. Los Angeles* 330 : 251-256.
 29. van Tets, G.F. & P.V. Rich, **1980**. A review of the De Vis fossil pigeons of Australia. *Mem. Qld. Mus.* 20 (1) : 89-93.
 30. Rich, P.V. & D.J. Bohaska, **1981**. The Ogygoptingidae, a new family of owls from the Paleocene of North America. *Alcheringa* 5 (2) : 92-102.
 31. Rich, P.V. & G.F. van Tets, **1981**. The fossil pelicans of Australasia. *Rec. S. Aust. Mus.* 18 (2) : 235-264.
 32. Chow, M., P.V. Rich & Q. Tao, **1982**. A late Eocene-early Oligocene bird and mammal from Wusu (Usu), Xingjiang (Sinkiang), northwestern China. *Mem. Beijing Nat. Hist. Mus.* 16, 1-11.
 33. Covacevich, V. & P.V. Rich, **1982**. New bird ichnites from the Fildes Peninsula, King George Island, West Antarctica 245-254. In: C. Craddock (ed.), *Antarctic Geoscience*, Univ. Wisconsin Press, Madison, 1172 pp.
 34. Frakes L.A. & P.V. Rich, **1982**. Paleoclimatic setting and paleogeographic links of Australia in the Phanerozoic. In: P.V. Rich & E.M. Thompson (eds.), *The Fossil Vertebrate Record of Australasia*, Monash University Offset Printing Unit, Clayton: 27-52.

35. Rich, P. V., **1982**. A tarsometatarsus of *Protostrix* from the mid-Eocene of Wyoming. *Auk* 99 (3): 576-579.
36. Rich, P.V., *et al.*, **1982**. An all too brief and superficial history of vertebrate palaeontology. In: P.V. Rich & E.M. Thompson (eds), *The Fossil Vertebrate Record of Australasia*. Monash Univ. Offset Printing Unit, Clayton: 1-26.
37. Rich, P.V. & G. F. van Tets, **1982**. Fossil birds of Australia and New Guinea : their biogeographic, phylogenetic and biostratigraphic input. In: P. V. Rich & E. M. Thompson (eds), *The Fossil Vertebrate Record of Australasia*. Monash Univ. Offset Printing Unit, Clayton, pp. 235-384.
38. Rich, T.H., *et al.* (incl. P.V. Rich), **1982**. Australian Tertiary mammals localities. In: P.V. Rich & E.M. Thompson (eds), *The Fossil Vertebrate Record of Australasia*. Monash Univ. Offset Printing Unit, Clayton: 525-572.
39. Rich, T.H. & P.V. Rich, **1982**. Search for fossils in New Zealand and Australia. *Nat. Geog. Soc. Res. Repts* 1973 (14): 557-568.
40. Rich, P.V., G.F. van Tets & R.A. McEvey, **1982**. Pleistocene records of *Falco berigora* from Australia and the identity of *Asturæetus furcillatus* de Vis (Aves, Falconidae). *Mem. Qld Mus.* 20 (3) : 687-693.
41. Rich, Pat Vickers, **1983**. Commentary on L.D. Martin's. The origin and early radiation of birds. In : A.H. Brush & G.A. Clark (Jr) (eds), *Perspectives in Ornithology*, Cambridge Univ. Press, Cambridge: 345-353.
42. Rich, Pat Vickers, **1983**. The fossil history of vultures: a world perspective. In: S.R. Wilbur & J.A. Jackson (eds) *Vulture Biology and Management*, Univ. Calif. Press, Berkeley: 3-25.
43. Rich, P.V. & T.H. Rich, **1983**. The Central American dispersal route: biotic history and paleogeography. In: D.H. Janzen (ed.), *Costa Rican Natural History*, Univ. Chicago Press, Chicago: 12-34.
44. Rich, P.V., G.F. van Tets, K. Orth, C. Meredith & P. Davidson, **1983**. Prehistory of the Norfolk Island biota. In : R. Schodde, P. Fullagar & N. Hermes (eds), *A Review of Norfolk Island Past and Present. Sp. Publ. Aust. Nat. Pks. Wildl. Ser.:* 6-29.
45. Rich, P.V. & C.A. Walker, **1983**. A new genus of Miocene flamingo from East Africa. *Ostrich* 54 : 95-104.
46. Rich, T.H.V., R.E. Molnar & P.V. Rich, **1984**. Fossil vertebrates from the late Jurassic or early Cretaceous Kirkwood Formation, Algoa Basin, Southern Africa. *Trans. Geol. Soc. S. Africa* 86: 281-291.
47. Rich, P.V. & J.C. Balouet, **1984**. The waifs and strays of the bird world or the ratite problem revisited, one more time. In: M. Archer & G. Clayton (eds), *Vertebrate Zoogeography and Evolution in Austrasia*, Hesperian Press, Carlisle: 447-455.
48. Rich, P.V. & G.F. van Tets, **1984**. What fossil birds contribute towards an understanding of origin and development of the Australasian avifauna? In: M. Archer & G. Clayton (eds), *Vertebrate Zoogeography and Evolution in Australasia*. Hesperian Press, Carlisle: 421-446.
49. Balouet, J.C., P.V. Rich & G.F. van Tets, **1985**. Phylogeny of the ratites and comments on their phylogeny. In: V.D. Ilyichev & V.M. Gavrillov (eds), *Acta XVII Cong. Intl Ornith.* 2: 1078.
50. Rich, P. V., **1985**. The fossil birds of western Australasia. Symposium (Paleontology) Survey Paper. *Proc. Intl Ornith. Congress*, Moscow. In: V.D. Ilyichev & V.M. Gavrillov, (eds.). *Acta XVIII Cong. Intl Ornith.* 1: 200 -226.
51. Rich, P.V. & L.H. Hou, **1985**. The fossil birds of China and south-eastern Asia. In: V.D. Ilyichev & V.M. Gavrillov (eds), *Acta XVIII Cong. Intl Ornith.* 2: 1164.
52. Rich, P.V. & P.J. Haarhoff, **1985**. The late Tertiary avifauna of Langebaanweg, South Africa: the Coliidae (Aves, Coliiformes). *Ostrich* 56 : 20-41.
53. Rich, P.V., A.R. McEvey & R.F. Baird, **1985**. The scrubbirds (*Atrichornis*) and lyrebirds

- (*Menura*) of Australia: Osteological comparison and comments on their relationships. *Rec. Aust. Mus.* 37: 165-191.
54. Rich, P.V. with C.W. Meredith & J.R. Specht, **1985**. A minimum date for Polynesian visitation to Norfolk Island, south-west Pacific, from faunal evidence. *Search* 16: 9-12.
55. Rich, P.V. & R.F. Baird, **1986**. History of the Australian avifauna. *Current Ornith.* 4: 97-139.
56. Patterson, C. & P.V. Rich, **1987**. The fossil history of the Emus (Aves, Dromaiinae). *Rec. S. Aust. Mus.* 21 (2): 85-117.
57. Rich, P.V., L.H. Hou, K. Ono & R.F. Baird, **1987**. A review of the fossil birds of China and southeast Asia. *Geobios* 19 (6): 755-772.
58. Rich, P.V., G.F. van Tets, T.H.V. Rich & A.R. McEvey, **1987**. The Pliocene and Quaternary flamingoes of Australia. *Mem. Qld. Mus.* 25 (1): 207-225.
59. Rich, T.H., M. Fortelius, P.V. Rich & D.A. Hooijer, **1987**. The supposed *Zygomaturus* from New Caledonia is a rhinoceros: a second solution to an enigma and its palaeogeographic consequences. In: M. Archer (ed.). *Possums and Opossums: Studies in Evolution*, Surrey, Beatty & Sons, and Roy. Zool. Soc., N.S.W.: 769-778.
60. Rich, T.H. & P.V. Rich, **1987**. New specimens of *Ngapakaldia* (Marsupialia: Diprotodontoidea) and taxonomic diversity in medial Miocene palorchestines. In: M. Archer (ed.) *Possums and Opossums: Studies in Evolution*, Surrey, Beatty & Sons, and the R. Zool. Soc., N.S.W.: 467-476.
61. Rowley, M.J., P.V. Rich, T.H. Rich & I.R. Mackay, **1987**. Immuno-reactive collagen in avian and mammalian fossils. *Naturwiss.* 73: 620-622.
62. Legendre, S., T.H. Rich, P.V. Rich, G.J. Knox, P. Punyaprasiddhi, D.M. Trumpy, J. Wahlert & P. Napawongse Newman, **1987**. Miocene vertebrates from Thai Shell Exploration and Production Company's Non Hen-1(A) Exploration Well, Phitsanulok Basin, Thailand. *J. Vert. Paleo.* 8(3): 278-289.
63. Rich, P.V., M.D. Plane & N. Schroeder, **1988**. A pygmy cassowary (*Casuaris lydekkeri*), from late Pleistocene bog deposits at Pureni, Papua New Guinea. *Bur. Min. Res. Aust. Geol. Geophys.* 10 (4): 377-389.
64. Rich, T.H.V. and P.V. Rich. **1988**. Polar dinosaurs from South Australia. *Episodes*, 11 (3): 223.
65. Rich, T.H. & P.V. Rich, **1988**. A juvenile dinosaur brain from Australia. *Nat. Geog. Res.* 4(2): 148.
66. Rich, T.H. & P.V. Rich, **1988**. Tetrapod (terrestrial vertebrate) assemblages. In: J. Douglas & J.A. Ferguson (eds). *The Geology of Victoria*, Geol. Soc. Aust.: 240-243.
67. Rich, P.V., T.H. Rich, B.E. Wagstaff, J. McEwen Mason, C.B. Douthitt, R.T. Gregory & E.A. Felton, **1988**. Evidence for low temperatures and biologic diversity in Cretaceous high latitudes of Australia. *Science* 242: 1403-1406.
68. Gregory, R.T., C.B. Douthitt, I.R. Duddy, P.V. Rich & T.H. Rich, **1989**. Oxygen isotopic composition of carbonate concretions from the Lower Cretaceous of Victoria, Australia. Implications for the evolution of meteoric waters on the Australian continent in a paleopolar environment. *Earth Planet Sci. Lett.* 92 (1989): 27-42.
69. Rich, T.H.V. & P.V. Rich, **1989**. Polar dinosaurs and biotas of the Early Cretaceous of southeastern Australia. *Nat. Geog. Res.* 5 (1): 15-53.
70. Rich, T.H., P.V. Rich, B. Wagstaff, J. McEwen-Mason, C.B. Douthitt & R.T. Gregory, **1989**. Early Cretaceous biota from the northern side of the Australo-Antarctic Rift Valley. In: Crame, J. A. (ed.), *Origins and Evolution of the Antarctic Biota*. Geol. Soc. Sp. Pub. 47: 121-130.
71. van Tets, G.F., P.V. Rich & H.R. Marino-Hadiwardoyo, **1989**. A reappraisal of *Protoplotus beauforti*, a new family of pelicaniform birds from early Tertiary sediments in Sumatra. *Bull. Geol. Res. Dev. Cent., Bandung* 5: 57-75 .
72. Frakes, L.A. & P.V. Rich, **1991**. Palaeoclimatic setting and palaeogeographic links of Australia in the Phanerozoic. In: P. Vickers- Rich, J. M. Monaghan, R. F. Baird & T. H.

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 180. Martin, A.J., T.H. Rich, M. Hall, P. Vickers-Rich & G. Vazquez-Prokopec, 2011. A polar dinosaur-track assemblage from the Eumeralla Formation (Albian), Victoria, Australia. *Alcheringa* doi: 10.1080/03115518.2011.597564.
 181. Woodward, H.N., A. Chinsamy, T.H. Rich, P. Vickers-Rich, **2011**. Growth Dynamics of Australia's Polar Dinosaurs. PLoS ONE 6(8):e2339. Doi:10.1371/journal.pone.0023339.
 182. Fedonkin, M.A., P. Vickers-Rich, B.J. Swalla & M. Hall, 2012. A new metazoan from the Vendian of the White Sea, Russia, with possible affinities to the ascidians. *Paleontological Journal* 46(1), 1-11.

(c) Articles in Press, Submitted or Advanced Prep.

183. Fitzgerald, E., M. Carrano, T. Holland, B. Wagstaff, D. Pickering, P. Vickers-Rich & T. Rich, in press. First definitive ceratosaurian dinosaur from Australia. *Naturwissenschaften*.
184. Rich, T.H & P. Vickers-Rich, in press. The palaeobiogeography of Mesozoic mammals - revisited. In: Talent, J. (ed.), *Global Biodiversity, Extinction Intervals and Biogeographic Perturbations through Time*. Springer, New York.
185. Rich, T.H & P. Vickers-Rich, in press. Australia's polar Early Cretaceous dinosaurs. In: Godefroit, P. & O. Lambert (eds), *Proceedings of the Symposium 'Tribute to Charles Darwin and Bernissart Iguanodons: New Perspectives on Vertebrate Evolution and Early Cretaceous Systems'*. Indiana University Press.
186. Rich, T.H & P. Vickers-Rich, in press. The Garden of Eden hypothesis. In: Anderson, J.M. (ed.), *Gondwana Alive*.
187. Rich, T.H, Xiao-bo Li, & P. Vickers-Rich, in press. Assessment of the potential for a Jehol Biota-like Cretaceous polar fossil assemblage in Victoria, Australia. In: Godefroit, P. & O. Lambert (eds), *Proceedings of the Symposium 'Tribute to Charles Darwin and Bernissart Iguanodons: New Perspectives on Vertebrate Evolution and Early Cretaceous Systems'*. Indiana University Press.

(d) Abstracts/Poster Papers/Reviews

1. Rich, P.V., **1973**. Terminal history of the Dromornithidae, giant ratite birds from Australia. *Int. Quat. Assoc. Congr.*, Christchurch, New Zealand.
2. Rich, P.V., **1974**. The Cenozoic history of Australia's non-passeriform birds *Proc. 16th Int. Ornith. Congr.*, Canberra, Aust., Acad. Sci.
3. Rich, P.V. & D.J. Bohaska, **1975**. Paleogene owls and the early diversification of the Strigiformes. *So. Cent. Sec. Geol. Soc. Amer.*, Austin, Texas.
4. Rich, P.V., **1978** (Abs.). Evolutionary patterns of birds on islands as evidenced by avian fossils : A review of fossil avifaunas on islands. Invited review paper, *R. Aust. Ornith. Union Ann. Congr.*, Norfolk Island.
5. Rich, P.V., **1979**. A perspective on Australian palaeornithological activity: a la 1980. *Roy. Soc S. Aust.*, Adelaide.
6. Rich, P.V. & G.F. van Tets, **1980**. Neogene and Pleistocene avian assemblages of Australia.

- Canberra *Bur. Min. Res. Geol. Geophys. Rec.* 1980/676 : 59-60.
7. Rich, P.V., C. Balouet & G.F. van Tets, **1982**. The fossil birds of western Australasia. *Int. Ornith. Congr.* Moscow.
 8. Rich, P.V. & L.H. Hou, **1982**. The fossil birds of China and the Oriental region. *Int. Ornith. Congr.* Moscow (poster paper).
 9. Rowley, M., P.V. Rich, T.H. Rich & I. Mackay, **1985**. Detection of collagen in Australian fossils by radioimmunoassay and immunoblotting. *Aust. Soc. Immunol. Ann. Meeting*, Queenstown, New Zealand.
 10. Rowley, M., P.V. Rich & I. Mackay, **1985**. Palaeoimmunology: survival of collagen in the mummified skin of a moa. *Aust. Soc. Immunol. Ann. Meeting*, Queenstown, New Zealand.
 11. Rich, T.H.V. & P.V. Rich, **1987**. Two chronological anomalies in the early Cretaceous tetrapod assemblage of south-eastern Australia. *Symp. Vol. Intl Geol. Corr. Prog. Proj. 245. Non-marine Cretaceous Correl.* Urumqi, Aug.
 12. Rich, P.V., T.H. Rich & T.F. Flannery, **1987**. Restructuring of late Cenozoic communities and environments in Australia and New Guinea. *Int. Quat. Assoc.* Ottawa, Canada.
 13. Rich, P.V., T.H. Rich, B. Wagstaff, J. McEwen-Mason, C.B. Douthitt & R.T. Gregory, **1988**. An Early Cretaceous biota from the northern side of the Antarctic - Australian rift. *Conf. on the Origins and evolution of the Antarctic Biota. Geol. Soc., Palaont. Assoc., British Antarctic Sur.*, Office of Polar Programs Cambridge and London, England.
 14. Rich, P.V. & T.H. Rich, **1988**. Biota of the Early Cretaceous polar environments of Southeastern Australia. *3rd Int. Organ. Palaeobot. Conference*, Melbourne, Aug. 1988.
 15. Rich, T. H. & P. V. Rich, **1989**. An Early Cretaceous biota from polar latitudes of southern Australia. *Conf. Aust. Vert. Palaeo. Evol.*, Sydney, March, 1989.
 16. Rich, P.V., P. Trusler, J. Yaldwyn, M. Rowley, P.R. Millener, A. Cooper, G. Chambers, W. Bock, T. Worthy & A. Anderson. **1989**. A mummy of the upland moa, *Megalapteryx didinus*, from South Island, New Zealand, 1989. *Conf. Aust. Vert. Palaeo. Evol.*, Sydney, March, 1989.
 17. Rich, P. V. & T. H. Rich, **1989**. High latitude terrestrial paleoenvironments from Early Cretaceous of southeastern Australia. *Abs. 28th Internat. Geol. Congress*, 2: 695.
 18. Gregory, R.T., K.M. Ferguson, C.B. Douthitt, P.V. Rich & T.H. Rich, **1991** (Abs.). High latitude terrestrial Cretaceous paleoclimate: evidence from oxygen isotopes in carbonate concretions from the Otway and Strzelecki Groups, southeastern Australia. Invited paper, *Chapman Conference on Continental Isotope indicators of Climate*.
 19. Rich, P. V., **1990**. In the footprints of time. Review of Dinosaur Tracks and Traces edited by D. D. Gillette & M. G. Lockley, Cambridge University Press, *New Scientist*, 19 May 1990.
 20. Ferguson, K. M., R.T. Gregory, C.B. Douthitt, P.V. Rich, & T.H. Rich, **1990** (Abs.). Stable isotopic constraints on the Cretaceous paleoclimate of the Dinosaur Cove section, Otways Group, southeastern Australia. *Geo. Soc. Amer. Abs. with Programs*, 22: A 196.
 21. Constantine, A., P. Vickers-Rich, T. H. Rich and R.A.F. Cas, **1991** (Abs.). Early Cretaceous fluvial architecture and vertebrate taphonomy of the Strzelecki and Otway groups, southeastern Australia. *Conf. Aust. Vert. Palaeo. and Evol.*, Alice Springs, Ap. 1991.
 22. Ferguson, K.M., R.T. Gregory, C.B. Douthitt, P.V. Rich, & T.H. Rich, **1991**. Stable isotopic constraints on the Cretaceous paleoclimate of the Dinosaur Cove Section, Otway Group, Southeastern Australia. *Geol. Soc. America Abs.*, session T27 (Geochemistry and Global Change). (Abs.)
 23. Gaffney, E.S., L. Kool, R. Rich, P. Rich, N. Pledge, M. Archer, & A. White, **1991**. Early history of the cryptodiran turtles in Australia, 1991. *Conf. Aust. Vert. Palaeo. and Evol.*, Alice Springs, April 1991.
 24. Gregory, R. T., K.M. Ferguson, C.B. Douthitt, P.V. Rich & T.H. Rich, **1991** (Abs.). High-latitude terrestrial Cretaceous paleoclimate: evidence from oxygen isotopes in carbonate concretions from the Otway and Strzelecki groups, southeastern Australia. *Chapman Conf. on Continental Isotopic Indicators of Climate*, invited paper.

25. Parrish, J.T., R.A. Spicer, J.G. Douglas, T.H. Rich and P. Vickers-Rich, **1991** (Abs.). Continental climate near the Albian South Pole and comparison with climate near the North Pole. *Geol. Soc. Amer. Annual Meeting*, Oct. 1991.
26. Rich, T. H. & P. Vickers-Rich, **1991** (Abs.). The decline and fall of the Labyrinthodontia. *Conf. Aust. Vert. Palaeo. and Evol.*, Alice Springs, April 1991. (also *The Beagle*: 9(3): 263-264).
27. Rich, T. H. & P. Vickers-Rich, **1993** (Abs.). The decline and fall of the Labyrinthodontia. *Intern. Geol. Cong.*, Kyoto, Japan.
28. Vickers-Rich, P. & T.H. Rich, **1993** (Abs.). The Early Cretaceous tetrapod assemblage of southeastern Australia: a typical polar community of that period? *Intern. Geol. Cong.*, Kyoto, Japan.
29. Vickers-Rich, P., **1993** (Abs.). The Great Russian Dinosaur Exhibition. A Joint Venture between Russian and Australian scientists. *Soc. Vert. Paleo. Annual Meeting*, Albuquerque, N. M. (USA).
30. Rich, T.H. & P. Vickers-Rich, **1993** (Poster Paper). Interrift Fauna and Flora of the Great Southern Rift Valley. *Soc. Vert. Paleo. Annual Meeting*, Albuquerque, N.M. (USA).
31. Rich, T.H. & P. Vickers-Rich, **1994** (Poster Paper). Interrift Biotas and Environments of the Great Southern Rift Valley. Presented at the *Intern. Herpetological Cong.* (Adelaide, Jan. 1994).
32. Vickers-Rich, P., **1994** (*Keynote Address*) (Abs.). Polar dinosaurs. *Australasian Palaeontological Conv.*, Australasian Assoc. Palaeon., Macquarie Univ. Feb. 7-9, 1994: 14.
33. Vickers-Rich, P. & T. H. Rich, **1994** (Poster Paper). Early Cretaceous polar tetrapods from the Great Southern Rift Valley, southeastern Australia, (Abs.), *Australasian Palaeontological Conv.*, Australasian Assoc. Palaeon., Macquarie Univ. Feb. 7-9, 1994: 93.
34. Vickers-Rich, P., **1994** (Abs.). Early Cretaceous polar tetrapods from the Great Southern Rift Valley, southeastern Australia. *VI Argentine Congress on Paleontology and Biostratigraphy*, Trelew.
35. Chinsamy, A., T. Rich, & P. Vickers-Rich, **1996** (Abs.). Bone histology of dinosaurs from Dinosaur Cove, Australia, *Soc. Vertebrate Paleontology, Annual Meeting*.
36. Vickers-Rich, P., **1996** (Public Lecture). Dinosaurs Down Under. *1st Science Centre World Congress*, Heureka, Vantaa, Finland, 14-18 June, 1996.
37. Vickers-Rich, P., **1996** (Abs.). High Latitude Gondwana Dinosaurs - Those that had to invest in long underwear. *Conasta 46, The Conference of the Australian Science Teachers Association*, The University of Melbourne, Conference Handbook: p. 17.
38. Vickers-Rich, P. (and T. Rich), **1998** (Abs.). Dinosaurs in Long Underwear -the polar dinosaurs of Australia. *Conasta 98, Conference of the Science Teachers Association of Queensland*, The University of Southern Queensland, Toowoomba, 30 Sept. - 2 Oct., presented keynote address and a workshop on the Box of Dinosaurs, p. 4, 6.
39. Vickers-Rich, P., **1998** (Abs.). Environmental and adaptations of the polar dinosaurs from southeastern Australia. *Second Symposium on Gondwana Dinosaurs*, 12-13 July, National Science Museum, Tokyo, p.16-17.
40. Vickers-Rich, P., T.H. Rich, & A. Constantine, **1998** (Abs.). The climate and environmental setting of early Cretaceous polar southeastern Australia. In: D. L. Wolberg, K. Gittis, S. Miller, L. Carey & A. Raynor (eds.), *Dinofest International Symposium, Abstract Volume* (Philadelphia): 48-49
41. Vickers-Rich, P., A. Chinsamy, & T.H. Rich, **1998**. Adaptations of S. E. Australian dinosaurs to a polar environment. In: D. L. Wolberg, K. Gittis, S. Miller, L. Carey & A. Raynor (eds.), *Dinofest International Symposium, Abstract Volume* (Philadelphia): 61-62.
42. Rich, T. H., P. Vickers-Rich, & T.F. Flannery, Sept. **1999** (Abs.). Fossil from the Early Cretaceous of Southeastern Australia and the "Garden of Eden" hypothesis. *Soc. Vertebrate Paleontology Annual Meeting*, Denver (Abstract for invited plenary lecture).

43. Rich, T. H., T.F. Flannery, & P. Vickers-Rich, **1999**. Corroboration of the Garden of Eden hypothesis. In: I. Metcalfe (Organiser), *Worlds in Collision Conference*, University of New England, Armidale, 29 Nov.-2 Dec. 1999. (Poster paper)
44. Rich, T. H., P. Vickers-Rich, & T.F. Flannery., 24 September, **1999** (internet). Divergence times of eutherian mammals. Corroboration of the Garden of Eden Hypothesis. *Science*, Technical Comment.
45. Vickers-Rich, P. V., 3 December, **1999** (internet on line). Technical comments concerning *Walking With Dinosaurs* Documentary, BBC.
46. Vickers-Rich, P., **2000** (Abs.). Dinosaurs' Antarctic Adventure. *15th Australian Geological Convention*, Sydney. Public Symposium Volume: 12 - 13.
47. Vickers-Rich, P., T.H. Rich, A. Constantine, **2004**. Polar Dinosaurs from High Latitudes in the Late Mesozoic, *Ann. Meeting, Geol. Soc. Southern Africa*, 12th-16th July, Univ. Witwatersrand, Johannesburg.
48. Vickers-Rich, P., **2004**. Geosciences in Your Face: Primary School Geoscience at the Monash Science Centre, Melbourne, *Ann. Meeting, Geol. Soc. Southern Africa*, 12th-16th July, Univ. Witwatersrand, Johannesburg.
49. Vickers-Rich, P., & T.H. Rich, **2004** (poster paper). Early Cretaceous Mammals from SE Australia. *International Geological Congress, Session G17.07*, 24 Aug. 2004, Florence.
50. Vickers-Rich, P., **2004** (poster paper). The Monash Science Centre: Scientists and Research Up front and Personal in Primary Schools. *International Geological Congress, Session, GOB.05*, Florence, Italy.
51. Vickers-Rich, P., **2005**. The Importance of Imagery in Communicating Ideas of Palaeobiotas. Commentary on R. Fortey's paper on Recent Evolution in the Phanerozoic Eon. World Summit on Evolution, Galapagos. Universidad San Francisco de Quito, Ecuador. Invited Commentator (Abs), a conference funded by the National Science Foundation, USA.
52. Vickers-Rich, P. & P. Trusler, **2006**. Images of the Precambrian. Snowball Earth 2006 Symposium, Ascona Switzerland. Invited Poster Paper. Abs. Volume: edited by Etienne, J. et al.: 108-109.
53. Vickers-Rich, P., **2006**. Saline Giants, cold cradles and global Playgrounds of Neoproterozoic Earth: The Origin of Animalia. Snowball Earth 2006 Symposium, Ascona, Switzerland. Invited Poster Paper. Abs. Volume: edited by Etienne, J. et al.: 106-107.
54. Fedonkin, M., P. Vickers-Rich, B. Swalla, P. Trusler & M. Hall, 2008. A Neoproterozoic chordate with possible affinity to the ascidians: New fossil evidence from the Vendian of the White Sea, Russia and its evolutionary and ecological implications. *33rd Internat. Geol. Cong., Oslo*, HPF 0709L: 183.
55. Turner, S. & P. Vickers-Rich, 2008. Women in IGCP/IGC. *33rd Internat. Geol. Cong.* Abstract on CD Rom.
56. Vickers-Rich, P. & P. Trusler, 2008. Portraits of the Past. *33rd Internat. Geol. Cong., Oslo*, HPF 741P/Poster - Abstract on CD Rom.

Abstracts from 2006 onward only as examples - not all listed.

(2) Completed and Published Research Projects

- (a) Evolutionary history of the Gypaetinae (Old World Vultures) in both the Old and the New Worlds during the Cainozoic.
- (b) Origin and development of the Australasian avifauna.

- (c) Development of a bilingual dictionary and computer translation facility for Chinese palaeontological and geological literature.
- (d) Search for Mesozoic, small terrestrial vertebrates in Africa. This project led to the discovery of several locales in southern Africa that have now been turned over to other African researchers, with whom I keep in touch.
- (e) Search for Mesozoic, small terrestrial vertebrates in the Middle East, Arabia, Argentina, Southern Africa, Russia.
- (f) Origin and development of the avifauna of Southeast Asia.
- (g) Development of avian biotas on South Pacific islands, especially Norfolk and Lord Howe Islands and New Caledonia. I discovered new fossil fields on these islands, and either published on them myself or directed the research on these projects.
- (h) Evolutionary patterns in Tertiary terrestrial vertebrates in Australia.
- (i) The history of early Cainozoic birds in Antarctica, based mainly on ichnites (footprints) from the Antarctic Peninsula.
- (j) The unique Dromornithid birds, Extinct Australian endemics.

(3) Ability to attract research support and research grants received

(Grants listed according to project)

(a) Origin and evolutionary patterns of Gondwanan vertebrate faunas, late Mesozoic to Recent with emphasis on polar faunas of the Early Cretaceous.

Emphasis in this project has been on analysing Cretaceous and early Tertiary vertebrates and their palaeoenvironmental contexts to interpret changing climate and biogeographic affinity of the Gondwanan biota through the past 120 million years. A major effort to locate new fossil localities, and three sites, the Early Cretaceous Dinosaur Cove (~106 million years old) in the Otway Ranges and Flat Rocks (~ 115 million years old) in the Strzelecki Ranges of Victoria, and the mid-Tertiary Bullock Creek (~15 million years old) in the N.T. have been the best discoveries. Recently (1994-5) a 10 year long research programme has been initiated with the Museo Egidio Fergulio in Chubut Province, Patagonia to explore and develop excavations in the fossiliferous rocks of southern South America, of similar age to those my colleagues and I study in Australia as well as older, mid to late Jurassic rocks.

Work carried out in conjunction with Dr. T.H. Rich, Museum of Victoria. Field work in this programme has been extensive and has involved more than 500 volunteers, from mine managers to labourers, and many graduate students whose topics have been chosen to specifically address this area of research.

Curriculum Vitae

ARC Linkage (2010-2012) (Monash Component \$34,489.00/\$36,578.00/\$38,667.00)	\$310,000.00
ARC Linkage (2007; 2010 - 2012)	\$140,000.00
ARC Discovery (1977 TO 2006)	\$1,126,000.00
National Geographic Society (1978 - 2011)	US\$550,000.00
Monash Special Research Fund (1979 - 2011)	\$120,000.00
Small ARC/Monash Research Fund (1994 - 2006)	\$190,000.00
Research Infrastructure Grant (1999)	\$35,000.00
Earthwatch (1986 - 1992)	\$35,000.00
AINSE \$20,000.00	
Victorian State Government, Ministry of Employment and Training, Employment Initiatives Programme (1984 - 2000)	\$26,531.00
The Dinosaur Society	US\$6,500.00
Museo Egidio Fergulio	\$60,000.00
The Age Newspaper	\$10,000.00
 Private Industry Grants / Private Funding:	
Atlas Copco (field equipment grant for work at Dinosaur Cove, Victoria) (1985-1993)	\$650,000.00+
Atlas Copco support for Inverloch Digs 1994-2010	\$50,000.00
Others (Mobil Australia, I.C.I., David Holdings, Utah Mining, Ingersoll-Rand) (1977-present)	\$150,500.00
Charitable Trust Grants (Sunshine Foundation, Friends of the Museum of Victoria, Collier Fund, Chapman Fund of the American Museum of Natural History, Danks Trust, M.A. Ingram Trust)	\$24,914.00
 Other:	
Fulbright Fellowship (post-doctoral) (1973-1974)	\$10,000.00
American Association for University Women (1971-1972)	\$5,000.00

Private donations and RACV (2007 - 2010) \$50,000.00

(b) The evolution of higher vertebrates with emphasis on Australasian taxa, a palaeobiochemical approach.

Directly related to project 1, this study has examined collagen preserved in fossils and utilized immunological comparisons to try to understand relationships of Australian fossils (now extinct) forms to extra Australian taxa. The project is now complete.

This project was carried out in conjunction with Drs. T.H. Rich, Merrill Rowley, and I.R. Mackay. Institutions involved were Museum Victoria; Walter and Eliza Hall Institute ; The Centre for Molecular Biology and Medicine, Monash; Harvard University School of Medicine; and Department of Biochemistry, University of California, Berkeley.

National Research Fellowship (Dr. Merrill Rowley, fellow) (1985-1987)	\$81,999.00
Monash University support to Nat. Res. Fellow, equipment/supplies grants (1985-1989)	\$10,000.00
ARC (1983)	\$21,330.00
Museum of Victoria (Acetic Acid Supplies) (1983-1989)	\$8,000.00

One M.Sc. student (Ms. Marion Anderson) and one M.Sc. student (Mr. Darren Groeke) , under Dr. Merrill Rowley's and my supervision worked on this project.

(c) The vertebrate faunas of the late Mesozoic and Cenozoic of Asia and the Middle East.

Directly related to projects 1 and 2, the thrust of this project is to elucidate material in Asia of similar age to that under study in Australia. The purpose is to understand the biogeographic links between these two areas and to date the collision between the Australian and Asian plates, by documenting the first occurrences of faunal interchange. Translation of a vast existing literature in Chinese as well as familiarizing both Australian, Russian and Chinese palaeontologists with each others' collections and research has been a major aim. From 1993 to date this project has been expanded to include relevant material from Eastern Europe and central Asia - and a long term project has been implemented with the Paleontological Institute (Moscow) and the Kotelnich Regional Paleontological Museum in the Urals of Russia to investigate fossil faunas in rocks of Triassic through early Cenozoic age. This venture involves joint field work, exchange of students between Australia and Russia and translation and publication (in English) of relevant scientific papers. One Ph.D. student, Andre Coffa, worked in the central Urals of Russia

Curriculum Vitae

on a palaeoenvironmental project, jointly supervised by P. V. Rich and A. Constantine, finalizing his Ph.D. in 2008.

Earth Sciences Dept./Zoology Dept., Monash University (1987)	\$1,200.00
Australian Development Assistance Bureau (1983)	\$5,000.00
Australia-China Council (1981-1982)	\$2,720.00
Monash Special Research Fund (1982)	\$4,000.00
Monash Overseas Travel Grant, Ingram Trust, Ian Potter Foundation (as part of overseas travel grant) (1982)	\$9,000.00
Institute of Vertebrate Palaeontology and Paleanthropology, PRC	\$2,500.00
Academia Sinica/Australian Academy of Science (1979) (all expenses for Dr. P.V. Rich familiarization trip to PRC)	
Charitable Trusts/private donations (1979-present)	\$10,600.00
Vice-Chancellor's Fund (1991)	\$6,000.00
The Great Russian Dinosaurs Exhibition (1993-1995) Total Income from this exhibition (\$ 5,000,000) funded research in Russia & Australia, and underwrote the Monash Science Centre.	\$60,000.00
The Australian Academy of Sciences (1979-1998) (included 4 trips to China, 3 by P. V. Rich plus one by both T. H. and P. V. Rich - with a trip by P. V. Rich in 2000-2001 and a second, Kyoto University, Japan 2005 - 2006 - both funded by Japan Society Promotion of Science fellowships).	\$125,000.00
Several institutions have been involved in these projects for financial assistance, the most important being the Computer Laboratory and Literary and Linguistic Computing Centre, Cambridge University, computer time needed to generate the bilingual technical dictionary for this programme.	\$25,000.00

(d) The Rise and fall of the Vendian (Ediacaran) Biota: Investigations into the Environment and Biodiversity of the First Animals on Earth. Comparative Studies of the Biota from the White Sea of Russia, the Flinders Range of South Australia and the Nama region of southern Africa.

This program was initiated, in 2002. It's aim has been to investigate known Vendian (Ediacaran) biotas (from the World's richest sites) (550-600 million years in age) and locate additional material from areas with a sparse late Neoproterozoic biotic record (South

America in particular), to closely compare their settings (sedimentology, carbon and oxygen isotope signatures, palaeogeographic positions). The project allows participants to gain further experience with those biodiverse assemblages in Russia, Namibia, South Australia and with other older assemblages such as those in the Bangamall Basin of Western Australia and the Western United States, where some of the oldest probable records of multicellular organisms have been reported. It brings together researchers from other areas to examine and gain experience with the two most biodiverse assemblages in Australia and Russia, to involve students in this interaction, in the hope of markedly increasing the amount of material from some of the lesser known locales and refining the dating of all of these locales.

Parallel to these investigations of the megascopic multicellular biota, the work of several associates of this program is to investigate the geochemistry of the sediments for clues to changing climate and ocean chemistry and the involvement of microfauna in the deposition of major ore bodies of mid to late Proterozoic age. In summary the overall aim of this project is to reach better understanding of the early Earth, from 3.8 billion to 550 million years ago (The Precambrian) - its physical nature, climate, ocean chemistry and the origin and early evolution of life, including the diversification of the first mammals.

Private Donations (2009) for work in Namibia	\$50,000.00
Saudi Geological Survey (2 years of field support; 2007 - 2011	@ \$200,000.00
National Geographic Grants, 2008-2011	\$US49,000.00
Project 493 (UNESCO-IGCP) 2003-2009	@ \$50,000.00
Project 587 (UNESCO-IGCP) 2010-2011	\$16,000.00
Australian IGCP Committee 2003-2011	\$36,000.00
Small ARC grant, 2003-2006	@ \$19,000.00
Exhibitions Income (2004 - 2006)	\$220,000.00
Australia Post (1993 - 2007) for technical art and science education	@ \$90,000.00
ARC Discovery Grant "Australia in the Forefront of Science: Australian Contributions to "Big Science" (2003)	\$50,000.00

(4) Involvement in Team Research

All of the projects listed under section 3 (Grants) have involved team efforts as this, to me, is the most exciting and challenging type of research.

(5) Development of Computer Software

I developed a CD Rom for teaching late Primary and Secondary students about scientific

research in the Geosciences, aimed not only for the education market but for the entertainment sector as well. This CD accompanies *The Dinosaurs of Darkness Exhibition*. I have also provided material used in CD's for several other groups - the BBC, Museum Victoria, etc. My 2nd/3rd year Geosciences Department Course on the History of Life in Australasia is being developed as an on-line course for Distance Education.

(6) Published Teaching Material

Several textbooks and several laboratory manuals for Tertiary students are listed under (e) and (f). In addition, several teaching modules and activity kits have been produced for primary and secondary student use with my involvement both as a writer and as the Director of the Monash Science Centre.

Most recent laboratory manual: Vickers-Rich, P. & P. Komarower, 2009. *Dynamic Biosphere: Changing Fauna & Flora Through Geological Time*. Monash University, 280pp.

(7) Innovative Technology, etc.

Courses I have taught and coordinated with Jeffrey Stilwell (ESC2032/3032 - *The Dynamic Biosphere: Changing Fauna and Flora Through Geologic Time*) and with Prof. Homer Le Grand (COM 2065 - *Communicating Science*) at Monash University available on the Web and CD to assist learning. In the latter course, students produce their own TV documentary using facilities available on the Monash Clayton campus.

(8) Creative Works

Major international educational exhibitions (see below in g). Principal advisor for the second largest Australia Post stamp issue, on "Australian Dinosaurs", in 1993 and wrote literature that accompanied that issue; originator, writer and coordinator for a second issue on early life "Creatures of the Slime" in 2005 and a third, Australian Megafauna in 2008. I have also been involved in documentary production, both as an "interviewee", producer and cameraman with the Australian Broadcasting Corporation for several years beginning in 1982. I have led or participated in several field expeditions into New Caledonia (1979), central and southern China (1979), Alaska (1990's), Russia (1994 - 2011), the South Pacific (1980's), Patagonia (1995 - 2009), and North America (1964-1975), and interior Australia (1971-present), Namibia (2003-2011), Saudi Arabia (1975, 2007-2011), India (2010 - 2011), amongst others.

(f) Teaching Contributions

(1) Major teaching responsibilities, courses taught, courses developed

STUDENT SUPERVISION

Honours: 1979, J. Napawongse; 1980, J. Long; 1981, C. Hann; 1982, R. Bearlin, D. Long; 1983, J. Dawson, B. Wagstaff, M. Whitelaw; 1984, R. Brown (with L.A. Frakes); 1985, J. Baird (with P. Kershaw); 1987, E. Patillo; 2010, Dilip Kumar, Shirin Sarafi (with M. Hall).

Masters,
Masters (Prelim): 1981, T. Flannery; 1983, C. Patterson (with J.W. Warren); 1994, G. McNamara (external advisor), R. Hofheins; 1994, S. van Huet; 2000, N. Schroeder; 2002, P. Gaff; 2003, K. Archdall and E. Fitzgerald (MSc Prelim); 2005, L. Buchanan (MSc Prelim); 2002, D. Shean, M. Inglis, P. Haarhoff (Univ. of Wittwatersrand).
Current: 2010, Alana Sharp (with T. Rich and Mike Hall); Shirin Serati (with Mike Hall).

PhD: 1984, J. Long (with J.W. Warren); 1986, R.F. Baird; 1990, J. McEwen-Mason (with L.A. Frakes and E. Truswell); 1991, B. Wagstaff (with L.A. Frakes and D. Berger); 1997, C. Williams, A. Kos; 2001, A. Constantine; 2003, P. Komarower (with H. Le Grand); 2005, L. Schwartz; 2006, K. Piper, S. van Huet, A. Coffa; 2007, C. Consoli (with J. Stilwell); 2008, E. Fitzgerald, L. Buchanan, S. Martin;
Current: D. Seegets-Villiers, Tim Holland (with John Long), Roger Close, David Elliott, Peter Trusler, Alana Sharp.

3rd year Projects: Numerous, 1-4 each year.

Postdoctoral Fellow: 1981-1982, Dr. R.E. Fordyce.

National Research Fellow: Dr. Merrill Rowley (3 years in the 1980's)

Honorary Research Fellows (coordinated in the Paleontological Area by Patricia Vickers-Rich)
Dr Mikhail Fedonkin (Paleontological Institute, Russian (Acad. Sci., Moscow)
Dr Jim Gehling (South Australian Museum, Adelaide)
Dr Kathleen Grey (Western Australian Geological Survey, (Perth)
Prof. Guy Narbonne (Queens University, Canada)
Dr Tom Rich (Museum Victoria, Melbourne)
Mr Peter Trusler (Artist, Melbourne)
Dr Sue Turner (Queensland Museum, Brisbane)
Dr Patricia Zalba (CONICET, Argentina)
Dr Claudia Holgate (Private Practice, South Africa)
Dr Andrey Ivantsov (Paleontological Institute, Moscow)
Dr Leah Schwartz (Geosciences Australia, Canberra)
Dr Sarah Martin (Geological Survey of Western Australia)
Dr Anthony Martin (University of Georgia, Atlanta, USA)

(2) Evaluation of teaching skills and evidence of reputation as a teacher.

Evaluations of my teaching skills and reputation as a teacher have been favourable. I have been asked to participate in courses in other departments (Mathematics, Biological

Sciences) and other faculties (Arts and Medicine) of Monash University and at other universities at many different levels from primary school through graduate courses and have always had an open door policy that is well utilized by all of my students. I was awarded the Crosbie Morrison Science Communication Medal in 1998 for my work in primary/secondary and public education in science and have given many invited keynote addresses to teachers' conferences, international conferences, and public meetings, both in Australia and internationally. I have been invited to advise the Iranian Government on setting up Science Education Centres in 2012 by UNESCO, etc.

(3) Development and application of new curricula and teaching methods.

During my teaching at both Columbia University and Texas Tech University I developed a series of new courses. At Columbia, as a graduate student, I solely developed a laboratory course to accompany the first year geology lectures. At Texas Tech University I developed a two-semester course in Historical Geology and graduate courses in Vertebrate Palaeontology, Palaeoecology and Museology.

At Monash University I have developed a number of courses: in Earth Sciences I was coordinator or co-coordinator of the two-semester First Year course (now called **ESC1011 Planet Earth and its Environment - the Cosmic Connection; ESC1022 Planet Earth; Dynamic systems, Environmental Changes and Resources**) over a period of 5 years. For this course I co-developed a laboratory manual, part of which are still in use, published by the Earth Sciences Department, Monash University. When I assumed responsibility for this course, I set about to make the entire staff accessible to students, I brought in outside experts to teach certain aspects of the course, set up frequent examinations in the laboratories which immediately insured that students worked effectively throughout the labs. This greatly reduced the marking time and as well provided immediate feedback to the students. I set up a demonstrator education system that insured tight correlation between lectures and labs, initiated a series of both compulsory and volunteer seminars at the first year level, which helped develop student presentation skills and direct involvement. Simultaneously I developed with my staff and the student input a laboratory manual and provided Australian input into the U. S.-produced textbook we had selected. I introduced use of several videos in library and lecture room and primary literature reading. The result was both increased numbers and higher retention rate at later years in Earth Science.

I developed second and third year units together with Prof. Ray Cas on Biostratigraphy and Sedimentology (**ESC2081 Sedimentation, Stratigraphy and Biostratigraphy; ESC3042 Sedimentary Geology/Palaeontology/ Stratigraphy**). In addition, I developed a semester unit taught at first as a combined second year Earth Sciences and 3rd year Zoology unit on the Vertebrate Palaeontology of Australasia (for which I developed both a text book and a laboratory manual, the former published and in 2nd edition in 2009), now taught as **ESC2032/3032 The Dynamic Biosphere Changing Fauna and Flora Through Geologic Time**. For two years I developed and taught a second year unit in the Zoology Department on Australasian Biogeography, parts of which formed a life sciences unit (**LSC2011 Biogeography, Ecology and Human Populations**). I have

Curriculum Vitae

participated in the Department of History's (Faculty of Arts) semester long "A Short History of the Universe" and currently participate in a School of Mathematics course on the history of the universe. Prof. Homer Le Grand, and I taught a 2nd and 3rd year unit in the Arts Faculty of Monash University, "Communicating Science" (COM2065/3065) for both Arts & Science students until 2010.

I have either coordinated or played a major part in the organization of both the **Orientation Day** and **Open Day** programmes for the Earth Sciences Department, (now the School of Geosciences) at Monash University, the two public and student information days on the Monash Clayton Campus.

I am the Foundation Director of the **Monash Science Centre**, initiated in 1993 to serve as a major public outreach for science communication dealing with frontline research underway at Monash University and other institutions in the Melbourne area, but as importantly communication about how science works - tied in many cases with the curriculum standards set out by both the federal and state governments of Australia. I fund raised and supervised the construction of a \$4.3 million building (Bldg 74 on the Monash university Clayton Campus launched in 2001) to house the growing Monash Science Centre staff and to provide exhibition and teaching space. Staff in 2006 number 4.3 full time equivalents, but casual staff and volunteers raise this to close to 40. Annual income, which The Centre raises primarily through its activities approaches \$1,000,000.

LABORATORY MANUALS DEVELOPED

1. Rich, Pat Vickers **1976. Continental Drift, Sea Floor Spreading, Plate Tectonics: Viable Theory or Romantic Speculation?** Burgess Publ. Co., Minneapolis, Minn., 22 pp.
2. Rich, Pat Vickers **1983. Laboratory Manual for General Palaeontology (Geology 101)**, Monash University Offset Printing Unit, Clayton, 112 pp.
3. Rich, Pat Vickers **1984, 1988. Laboratory Manual for Australian Invertebrate Palaeontology (Geology 301)**, Monash University Offset Printing Unit, Clayton, 48 pp.
4. Rich, Pat Vickers **1984, 1988. Laboratory Manual for Australian Zoogeography (Zoology 205)**, Monash University Offset Printing Unit, Clayton, 114 pp.
5. Rich, Pat Vickers **1984. Laboratory Manual for Australian Vertebrate Palaeontology (Earth Sciences 205 : Zoology 303)**, Monash University Offset Printing Unit, Clayton, 101 pp.
6. Komarower, P. & P. Vickers-Rich, eds., **1993. Exercises in Earth and Planetary Science. A Pacific Perspective.** An Introductory University Laboratory Manual. Earth Sciences Department, Monash University in cooperation with Pioneer Design Studio, Melbourne.
7. Komarower, P., B. Wagstaff, & P. Vickers-Rich, eds., **1994, 1995 and revised to present. Exercises in Earth and Planetary Science. A Pacific Perspective.** Revised edition. Monash University in Cooperation with Pioneer Design Studio, Melbourne.
8. Vickers-Rich, P. ed., **1993, 1994, 1999 - 2004. A Laboratory Manual for Australasian Vertebrate Palaeontology.** Ecology/Evolutionary Biology Department, Monash University in cooperation with Pioneer Design Studio,

- Melbourne. Available as text and CDROM.
9. Vickers-Rich & P. Komarower, eds., **2008, 2009. The Dynamic Biosphere: Changing Fauna and Flora Through Geologic Time**; School of Geosciences, Monash University, Melbourne. Published as a soft covered volume in 2008, 2009: 280pp.

(g) Relevant professional activities: significant contributions to profession, academic discipline and wider community:

(1) Membership of societies, office held, committee membership

President Elect, Australasian Association of Palaeontologists (specialist group of the Geological Society of Australia), **1994-1996** (held office as Vice President, **1992-1994**; Past President, **1997-1998**).

Chair, International Geological Correlation Committee, Australia (UNESCO)

Appointed Member, UNESCO International Geological Correlation Program Committee, Paris (2009 ongoing). Appointed to Chair in 2011, for 2012, ongoing.

Elected Member, Society of Women Geographers, 1990 - present, Washington, D. C.

Elected Member, International Academy of Science and Nature and Society, Moscow, 1996 - present.

Elected Member, Explorers' Club, New York, 1998 - present.

Appointed Member, Queen Victoria Museum Research Committee, 2005 - present, Launceston, Tasmania.

Invited Member, Australian Science Media Centre, Advisory Panel, 2005 - present.

Elected Member, Environmental Advisory Committee, Monash City Council, 2008 - present.

Member, Monash University Council, 2010, with 3-year term.

Other Professional Organizations of which I am a member or was a member for several years:

American Association of University Women, Australasian Association of Palaeontologists, Australian Conservation Foundation, Geological Society of America, Geological Society of Australia, Gould League, International Committee on Avian Anatomical Nomenclature, Organization for Tropical Studies, National Museum Review

Committee, Palynological and Palaeobotanical Association of Australasia, Phi Beta Kappa, Royal Australasian Ornithologists Union, Sigma Xi, Society of Vertebrate Paleontology, Australian Association of Science Communicators, Royal Society of Victoria, Royal Institution of Australia, amongst others.

I have also served or am serving on the editorial board of several academic journals (e.g. *Journal of Vertebrate Paleontology and Palaeoclimates: Data and Modelling*) and on the organizing committees of international conferences (*International Ornithological Congress*, the *International Conference of Mesozoic Ecosystems*, *International Geological Correlation Project 493 Symposia* (Prato, Italy and Kyoto Japan, 2004, 2006) and see (b).

(2) Professional Awards and Distinctions Received

Awards listed under several other categories of this vitae (see b):

- One of six Australian Scientists chosen for in depth interviews by ABC's Quantum for 1995, amongst others.

(3) Professional services, consultancies, commissions, conferences

(a) Exhibitions

I have been directly responsible for organisation of several major (*) and several smaller exhibitions since 1982 that have attracted a considerable income for the state and Federal Governments in Australia and New Zealand as well as several overseas museums.

**Dinosaurs from China*, 1982 (viewed by >500,000 people in Australia during two three-month periods, Sydney and Melbourne). Two of the large specimens in this exhibition were cast and added to the Museum of Victoria collections. Revenue generated >\$900,000

**Esso's Return of the Dinosaurs*, 1987-1988 (viewed by ~260,000 people in Victoria during a three-month period, ~100,000 in New Zealand during a three-month period). Revenue generated >\$550,000

**Kadimakara, Australia's Dreamtime Animals*, 1987-1990, (toured in Australia, and North America; attendance and income figures not available; underwritten in North America by the ANZ Bank and Paul Hogan).

**The Great Russian Dinosaurs*, 1993-1997 (viewed by ~1,000,000 people in Australia (Melbourne, Sydney, Launceston, Brisbane, Perth) and in excess of 1,500,000 in the USA. Private enterprise funded the set up of this exhibition - Qantas, Channel 7, ICI Australia (Orica), FAI Insurance, Bostik, Australia Post - either direct cash contribution or in kind support amounted to approx. \$600,000. This exhibition has now generated more than \$5,000,000 which has been channelled back into science research or museum activities in Australia and Russia (see attached report). It has also brought 100 scientists and technical personnel from Russia to Australia for cooperative research, and training and more than 20 Australian scientists have travelled to Russia for cooperative research and field work. **Ghosts of the Great Russian Dinosaurs* is a second exhibition that evolved from casts made of **The Great Russian Dinosaurs*. This exhibition is still travelling and has already moved around Australia, the United States and South America in 2000. At the beginning of 2000 more than 1,000,000 people had viewed this exhibition.

**Prehistoric Art - Illustrations from The Fossil Book* (Doubleday, N.Y.), 1993-1994. The exhibition opened at the Queen Victoria Museum and Art Gallery in December 1993

and will travel both domestically and internationally in the future.

***Dinkum Aussie Dinosaurs.** Exhibition at the National Philatelic Centre, 25 Sept. 1993-Jan. 1994. Principal scientific advisor to Australia Post, suggested idea in first instance and worked closely with Australia Post staff. Arranged for fossil material to be gathered and borrowed by Australia Post.

Income figures relate only to gate receipts and not to additional jobs and educational products that were created by these exhibitions. Catalogues and educational kits, which I either wrote or had a considerable association with, are still utilized in primary and secondary schools in Australia and overseas.

Major specimen exchanges of scientific materials resulted from the ***Dinosaurs from China** exhibition in 1982 and from ***The Great Russian Dinosaurs Exhibition** in 1993-1994 (and beyond).

The Museum of Victoria gained casts of two large dinosaur skeletons for display; the Museum of Victoria and the Institute of Vertebrate Paleontology and Paleoanthropology, P.R.C., sold casts of these specimens, earning more than \$100,000 for each institution, as well as creating jobs during the period of 1982-1984 and international exchange of personnel from 1982 to the present. A similar arrangement has been negotiated with the Paleontological Institute (Moscow) for casting of all the more than 50 specimens in ***The Great Russian Dinosaurs Exhibition** touring Australia, New Zealand and the USA. FAI Insurance has underwritten the project and casts of specimens sold from this project will further fund an expert casting team for at least a decade. A professional casting team of six personnel has been maintained for the past 18 months on the proceeds of this exhibition.

My involvement in such activities is continuing, in particular three major exhibitions ***Dinosaurs of Darkness (Dinosaurs Under Auroras)** two of which opened in Australia in August 2000 and in Buenos Aires in July 2000, Chicago in 2000 - 2001; South Dakota 2001; Mesa (Arizona) 2002 and has toured to Tasmania, the Northern Territory, Western Australia, South Australia and Italy in 2000 - 2002. This exhibition toured Japan in 2003, to the USA in 2004, to Taiwan in 2005/6 (1.4 million visitors) and to Singapore in 2006 (130,000 visitors). The subjects of the exhibition are those dinosaurs which lived near the North and South Poles. A second exhibition - ***The Beginning of Animalia: Before the Dinosaurs** - premiered at the Fukui Prefectural Museum in July 2006 with more than 100,000 visitors. I organized, wrote and toured this exhibition - a joint effort of Monash University, the South Australian Museum, the Paleontological Institute of the Russian Academy of Sciences and the Namibian Geological Survey. This has continued to travel through 2007. A third exhibition was funded by a Federal Visions grant - ***Wildlife of Gondwana, 3.5 Billion Years** - March 2007 in Taiwan and in 2008 -2009 in Melbourne, Australia, South Australian Museum in 2009; Singapore Science Centre Museum in mid 2010; Northern Territory Museum in late 2010 - 2011; Community Exhibition Hall, Apollo Bay, Victoria, Australia in late 2011 - early 2012.

I have also consulted (1992-1993) on an exhibition on development of aridity during the late Cainozoic in Australia for the Kanagawa Museum in southern Tokyo, and overseen the production of the first cast of the world's largest bird, *Dromornis stirtoni*, from 15 million year old sediments in central Australia. That skeleton is in the Kanagawa Museum and further copies are being produced for other world class museums.

The **O Mundo Perdido Timor-Leste Exhibition* on the geology of Timor was emplaced in the Mercado Lama Exhibition Centre in Dili, Timor-Leste in late 2008 and moved to a more permanent space in the foyer of the President Jose Ramos-Horta's Offices in August 2009, where it will remain until a National Museum is built in this country. This exhibition was funded by significant donations from ConocoPhillips, the Australian Defence Force and Monash University and hosted by the President Ramos-Horta. It serves as a centerpiece for developing science curricula in this new nation and the book by Ramos-Horta and I with a title the same as the exhibition gives additional access to the exhibition materials. Two other regional museum exhibitions on the geological history of Timor were emplaced in Aileo and Bacau in Timor during 2010. A small regional museum was set up near Aus (Aar Farm) in southern Namibia on the Precambrian history of this region in 2009.

Funding for the Timor project was provided by:

ConocoPhillips Grant to Emplace Exhibition on the Geologic History of Timor in Dili, 2007-2009	\$120,000.00
National Government of Timor-Leste	\$18,000.00
Australian Defence Force in-kind support for movement of Staff and materials for emplacement of O Mundo Perdido Timor-Leste as a beginning for the National Museum, 2007-2009 in excess of	\$100,000.00
Monash University International	\$10,000.00

EXHIBITION CATALOGUES

1. Rich, Pat Vickers **1974**. *Birds of Australia's Past*. National Museum of Victoria pamphlet for the International Ornithological Congress, Canberra. 10 pp. accompanying a ten-panel exhibition.
2. Rich P.V. & P. Duce **1976**. *Birds of Australia's Past*. Pamphlet accompanying exhibition at the International Geological Congress, Sydney. Nat. Mus. Vict., 8 pp.
3. Rich P.V. *et al.* **1982**. *Dinosaurs from China*. Nat. Mus. Vict., 52 pp.
4. Rich, Pat Vickers **1987**. *Prehistoric Bones and Bunyips*. An exhibition catalogue. Queen Victoria Museum and Art Gallery, Launceston, 6 pp.
5. Rich, P.V. *et al.* **1987**. *Esso's Return of the Dinosaurs*. Museum of Victoria, Melbourne, exhibition catalogue, 52 pp. (accompanies Esso's Return of the Dinosaurs Activity Kit, 99 pp., for which I was scientific advisor).
6. Rich, P.V. *et al.* **1987**. *The Firth Dinosaurs* (New Zealand's first exhibition exploring dinosaurs and their relatives). Auckland Museum exhibition.
7. Rich, P.V. with K. McNamara, C. Tassell and J. Long **1987**. *The Great Australian Fossil Show*. Exhibition catalogue, Western Australian Museum, 32 pp. (accompanies an exhibition on fossil vertebrates of Australia, Perth).
8. Rich, P.V., M. White & C. Tassell **1987-1990**. *Kadimakara. Australia's Dreamtime Animals* (an exhibition catalogue to accompany an international exhibition of Australian fossil vertebrates - travelling to U.S.A. and Canada; 85 pp., Queen Victoria Museum and Art Gallery, Launceston, Newcastle Regional Museum, Ballarat College of Advanced Education).
9. Vickers-Rich, P. & T. H. Rich, 1993, **1994, 1995**. *The ICI Australia Catalogue of*

the Great Russian Dinosaurs Exhibition 1993-1995. Monash Science Centre, Clayton, 80 pp.

10. Vickers-Rich, P., T. H. Rich & M. J. Copello, **1999**. *The Orica Catalogue of the Great Russian Dinosaurs Exhibition* (Spanish-English Edition). Monash Science Centre, 80 pp.
11. Vickers-Rich, P. & T. H. Rich, **1993, 2000, 2002**. *Dinosaurs of Darkness*. Queen Victoria Museum, Launceston and Monash Science Centre: 8 pp.
12. Vickers-Rich, P. & T. H. Rich, **1993, 2000**. *Dinosaurs Days*, Monash University Gallery, Melbourne: 8 pp.
13. Vickers-Rich, P., Rich, T., Kobayashi, Y., & Miata, K., **2003**. *Dinosaurs Under Auroras*. Catalogue for exhibition. Fukui Prefectural Dinosaur Museum, Fukui, Japan, 88 pp.
14. Vickers-Rich, P., Hasegawa, Y., & T. Kimura, **2006**. *Land of Koalas*. Exhibition at the Gunma Prefectural Museum, Japan (English/Japanese).
15. Vickers-Rich, P. & S. Sano, **2006**. *Before the Dinosaurs. The First Animals on Earth*. Fukui Prefectural Dinosaur Museum, Katsuyama, Japan: 84 pp.

(b) Popular Publications

Over the past several years I have been involved in developing a series of books as well as study kits for teaching earth sciences in the primary and secondary schools. I have also either written or been the principal editor on several books that explain the general topic of palaeontology, as well as Australian vertebrate palaeontology, and Precambrian palaeobiology and its implications to the public. Recent activities have concentrated on delivery of science-based colouring books to under-resourced schools in Afghanistan, East Timor-Leste, Southern Africa, Russia and regions in South America (Argentina and Ecuador), my main task being writing, arranging and finding translators for local languages, publication and delivery.

POPULAR BOOKS

1. Rich, P.V. & G. Van Tets **1991**. *Kadimakara : Extinct Vertebrates of Australia* (Pioneer Design Studio, **1985**, 288 pp.). This book was republished by Princeton University Press (USA) in **1991**, who purchased the World Rights.
2. Rich, P.V., Rich, T.H., Fenton, M., **1989**. *The Fossil Book*, Doubleday, New York, 771 pp.
3. Vickers-Rich, P. and T.H. Rich., **1993**. *Wildlife of Gondwana* (Reed Books International, Sydney, 286 pp.). Winner of the 1993-94 Eureka Prize, New South Wales Press Science Book Prize (\$10,000) and the Whitley Medal for 1994. Listed as a scholarly work as well - for it serves both the public and the scientific community.
4. Vickers-Rich, P., T. H. Rich, L. S. Rich & T. Rich, **1997**. *Australia's Ancient Backboned Animals. The Little Prehistory Books*. Kangaroo Press, Sydney, 31 pp.
5. Vickers-Rich, P., T. H. Rich, L. S. Rich & T. Rich, **1997**. *Australia's Ancient Birds. The Little Prehistory Books*. Kangaroo Press, Sydney, 31 pp.
6. Vickers-Rich, P., T. H. Rich, L. S. Rich & T. Rich, **1997**. *Australian Dinosaurs. The Little Prehistory Books*. Kangaroo Press, Sydney, 22 pp.
7. Vickers-Rich, P., T. H. Rich, L. S. Rich & T. Rich, **1997**. *Diprotodon and Its Relatives. The Little Prehistory Books*. Kangaroo Press,

- Sydney, 25 pp. 45.
8. Vickers-Rich, P., T. H. Rich, M. A. Fenton & C. L. Fenton, **1997**. *The Fossil Book*, Dover Publications, New York, 740 pp.
 9. Vickers-Rich, P., T. H. Rich, M. A. Fenton, B. N. Gopchbev, Y. N. Gubin, D. N. Estsn, N. N. Kalandadza, Y. N. Kurochkin, Y. A. Mitchauposa, S. B. Naysopnach & A. Rozanov, **1997**. *Kamanaya Knyga* [Russian Translation and expansion of the second English Edition of *The Fossil Book*], Moscow, 622 pp.
 10. Macdonald, J.R., M.L. Macdonald, P. Vickers-Rich, L. S. Rich and T. H. Rich, **1997**. *Fossil Collector's Guide*. An introduction to fossils, fossil collecting, and the significance of palaeontological investigation for the layperson. Kangaroo Press (an imprint of Simon & Schuster Australia), Sydney, 172 pp.
 11. Rich, P.V., L.S. Rich and T.H. Rich, **1996**. *Australia's Lost World. A History of Australia's Backboned Animals*. Kangaroo Press, Sydney, 128 pp.
 12. Rich, T. H. & P. Vickers-Rich, **2000**. *Dinosaurs of Darkness*. Indiana University Press, Bloomington; 222pp. (also co-published in 2001 by Allen & Unwin, Sydney).
 13. Vickers-Rich, Plant, A. & D. Gelt, **2002**. *Animals of the World*. Monash Science Centre, Melbourne: 70 pp. (an activity book in three languages - English, Dari and Pashto delivered to orphanages and schools in Afghanistan - 5000 copies).
 14. Rich, T. H. & P. Vickers-Rich, **2003**. *A Century of Australian Dinosaurs*. Queen Victoria Museum and Monash Science Centre, Launceston and Melbourne, 124pp.
 15. Rich, T.H., P. Vickers-Rich, C.L. Fenton, & M.A. Fenton, **2003**. *The Rock Book*, Dover, Mineala, 397 pp.
 16. Vickers-Rich, P., A. Plant, & D. Gelt, **2006**. *Animals of the World* (Balada Sira Mundu Nian, Animais do Mundo). Monash Science Centre and the School of Geosciences, Monash University, Melbourne: 39 pp. (science-based colouring book with text, 10,000 delivered to Timor-Leste in April 2006 along with school bags, pencils, rulers and notebooks in cooperation with Kirsty Gusmao's Friendship Schools Program. Used in the massive refugee camps that resulted from the unrest in Timor-Leste at the time of delivery). Funds raised for project, \$30,000 + with the assistance of Jimmy Barnes (*Cold Chisel*), Tony and Anne Chesher, Mike Brooks and the National Geographic Society.
 17. Ramos - Horta, J. & P. Vickers-Rich, 2009, *O Mundo Perdido Timor- Leste: A Boy and a Crocodile Travel Through Time*. Monash Science Centre, Melbourne, 32pp. Book on the geologic history of Timor, published in a complex version and a simple version in 6 languages (Tetun, English, Spanish, Tamil, Portuguese and Chinese). This book has been printed in 2nd edition by UNESCO and the Ministry of Education of Timor-Leste (15,500 copies) in Tetun, Portuguese and English, and in 3rd edition by the Government of Timor-Leste and the Government of the Peoples' Republic of China for use in the Timor Pavilion at the Shanghai World Expo - 30,000+ copies in Chinese, English and Portuguese.
 18. Kool, L., Glenie, R., Flannery, T., Long, J., Rich, T., Hall, M., Wagstaff, B., Seegets-Villier, D., Pawley, K., Pickering, D., Muranyi, M.,

Cleeland, M., Walters, M. & Vickers-Rich, P., 2010. *Dinosaur Dreaming: Exploring the Bass Coast of Victoria*. Monash Science Centre, Australia.

POPULAR ARTICLES and LECTURES

1. Rich, P.V. & G.F. van Tets, **1976**. Birds from Australia's Past. *Australian Nat. Hist.* 18 (9): 339-341.
2. Chow, M. and P.V. Rich **1981**. The fossil vertebrates of China and Australia. Their similarities and differences through time. *The Fossil Collector* 5: 10-19.
3. Rich, Pat Vickers **1981**. Feathered leviathans. *Hemisphere* 25 (5): 298-302.
4. Rich, Pat Vickers (coll. C. Balouet, T. Flannery, D. Frimigacci, L. Launay and T. Rich) **1981**. Kukawiede's Revenge. A look into New Caledonia's distance past. *Hemisphere* 166-171.
5. Rich, Pat Vickers **1982**. Where did Australia's birds come from? A question complicated by fossils and a new tectonic theory of the earth. *Lab Talk*. J. Sci. Teachers' Assoc., Vict. Occ. pap. Earth Sci. 35: 19-30.
6. Chow, M.C., P.V. Rich and Y.P. Chang 1983. Wandering continents and their animals (Australia-China), pt. I. *Hemisphere* 27 (4): 227-232.
7. Chow, M.C., P.V. Rich and Y.P. Chang 1983. Wandering continents and their animals (Australia-China), pt. II. *Hemisphere* 27 (5): 257-271.
8. Rich, Pat Vickers **1983**. The world's largest bird, *Dromornis stirtoni*. In : S. Quirk & M. Archer (eds) *Prehistoric Animals of Australia*, The Australian Museum, Sydney, pp. 42-43.
9. Rich, P.V. and T.H. Rich **1984**. The Andamooka sea monster: a plesiosaur from the Australian opal fields. *Hemisphere* 29 (1): 50-53.
10. Rich, Pat Vickers **1986**. *Australian Dinosaurs and Their World*. Aust. Golden Project Book, Golden Press, Sydney.
11. Rich, Pat Vickers **1986**. *Kadimakara* (An Australian Bunyip's Colouring Book), Monash University Offset Printing Unit, Clayton.
12. Rich, Pat Vickers **1987**. *Australian Prehistoric Animals. Activity book*. Queen Victoria Musuem and Art Gallery.
13. Rich, P.V. **1987**. A giant bird of the Pleistocene. In: S. Hand and M. Archer. *The Antipodean Ark*, Angus and Robertson, Sydney: 48-50.
14. Rich, P.V. **1987**. The running birds of Alcoota. In: S. Hand and M. Archer. *The Antipodean Ark*, Angus and Robertson, Sydney: 46-48.
15. Rich, P.V. and L.S. Rich **1987**. *Australian Armoured Fish and Their World (the Palaeozoic)*. A Golden Project Book, Golden Press, Sydney, 24 pp.
16. Rich, P.V. and L.S. Rich **1987**. *Australia's Prehistoric Birds and Carnivorous Kangaroos and Their World (the Cainozoic)*. A Golden Project Book, Golden Press, Sydney, 24 pp.
17. Rich, P.V. and L.S. Rich, **1989**. *Australia's 400 million year story*. A Golden Project Book, Golden Press, Sydney, 16 pp.
18. Rich, P.V., **1990**. *The Dinosaur Hunter's Handbook* accompanying The Dinosaur Hunter's Kit. Five Mile Press, Melbourne: 80 pp. plus activity Kit.
19. Rich, P.V., **1991**. *The Dinosaur Hunter's Kit and The Dinosaurs Hunter's Handbook*. Five Mile Press, Melbourne.
20. Stone, D. et. al., **1991**. *Explore The Great Ocean Road. Along Australia's Southern Touring Route*. Geelong to Mt Gambier. See Australia Guides, Lilydale. (served as scientific advisor and writer on this team written book that is in a series for all of Australia. This project is still underway and the next book in the series will cover

- the coast from Cooktown to Townsville, Qld.).
21. Vickers-Rich, P. and T. H. Rich, **1991**. The dinosaurs of Winter. *Natural History*, Ap. 1991, 33-37.
 22. Monaghan, J., T. Rich and P. Vickers-Rich, **1991**. Polar dinosaurs Down Under. *Terra*, 29 (4): 22-27.
 23. Vickers-Rich, P., **1992**. *The Dinosaur Bag. A Scientific Activity Kit*. Monash University, Earth Sciences Department.
 24. Vickers-Rich, P., L. Rich & K. Ausselbrook, **1992**. *Australia Long, Long Ago. A Primary School Geology Primer*. Tried as an elective course at an experimental Victorian school and at the Museum of Victoria. Monash University Earth Sciences Department in cooperation with Pioneer Design Studio. Book sold with the *Rocks, Rocks, Rocks* bag of specimens.
 25. Anderson, I. with Rich, T. H. & P. Vickers-Rich, **1993**. Diggers at Dinosaur Cove. *New Scientist*, 1860: 28-32.
 26. Rich, Thomas H. & P. Vickers-Rich, **1993**. The dinosaurs who came in from the cold. *Qantas Airways Magazine*, Jan.-Feb. 1993: 36-42. (Received the 1993-1994 Michael Daley Award for scientific journalism by a non-journalist).
 27. Vickers-Rich, P., **1993**. *The Stamp Gang Collecting Book of Dinosaurs. A How, What, When and Why Beginner's Guide*. Australia Post, Melbourne, 32 pp.
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55. Vickers-Rich, P., **2006**. *Dinosaurs Out in the Cold*. Science in the Cafe, Singapore Science Centre, 17 August 2006.
56. Vickers-Rich, P., **2006**. *Keeping a Clear Vision: Journey of a 20th Century Palaeobiologist*. Keynote lecture for the International Symposium: Nurturing Independent Thinking: *The Role of Museums*, Kyoto University, January 2006; Abs Volume pp.: 11-49.
57. Vickers-Rich, P., **2006**. *Walking on the Edge. The Life of a Palaeobiologist*. Two lectures presented in Johannesburg on behalf of Monash University - at the Sci-Bono Science Centre and at Loftense Girls' High School in the township of Soweto, South Africa.

Lectures/presentations post 2006 not listed - only examples given

EDUCATIONAL PUBLICATIONS FOR PRE-TERTIARY EDUCATION (also see Popular books)

1. van Huet, S., P. Vickers-Rich & L. Hann, **1992-2003**. **The Dinosaurs of Darkness Science Activity Kit**. Included are a 145 page teacher's manual and a hands on kit that introduces Australia's polar dinosaurs - using them as a vehicle to investigate how scientists work and generate new ideas and concepts. Launched by the Federal Minister of Science, the Honourable Ross Free, in late 1992.
2. van Huet, S. & P. Vickers-Rich, **1993**. **The Great Russian Dinosaurs Teachers Kit** (42 pp.). Accompanied by **The Great Russian Dinosaurs Junior Students' Kit** (60 pp) and **The Great Russian Dinosaurs Senior Students' Kit** (64 pp.). Monash Science Centre, Clayton. **1999-2000**. Spanish language editions of both kits prepared by P. Vickers-Rich, M. J. Copello & L. S. Rich.
3. Vickers-Rich, P. et al., **1993**. **Dinosaur Oodles**. An activity kit developed as a joint venture with Bostik. Kit encourages children to play games and construct models using Blu-tac and other materials that centre around Australian dinosaurs and their environment.
4. van Huet, S. et al. incl. P. Vickers Rich, **1994-2000**. **The Mineral Kit**. Monash Science Centre and Victorian Chamber of Mines, Melbourne, 68 pp. + kit.
5. with van Huet, S., C. Hann, et. al., **2002, 2003**. **The Box of Dinosaurs**. Extensive education Kit accompanying the Dinosaurs of darkness Exhibition which traveled since 1997 in Australia, Japan, Argentina and The United States.
6. McNamara, G. C. & P., Vickers-Rich, **2002**. **Dinosaurs of Southern Australia**. Geoscience Australia Record 2002/09: 14 pp. & 18 slides.
7. Vickers-Rich, P. & T.H. Rich, **2004**. **Dinosaurs of the Antarctic**. Scientific American, Special Edition, 14 (2): 40-47.
8. Vickers-Rich, P., **2004**. **Forward to Look - It - Up - Book - Of -Dinosaurs**, Random House, New York.
9. Vickers-Rich, P. & L. Hann, **2003**. **Serendipaceratops**. Cut out model and short text about new Australian ceratopsian named after Arthur C. Clarke. Geoscience Australia and Monash Science Centre, Canberra/ Melbourne, 1p and cutout model for construction.
10. A number of education modules developed with Australia Post around three stamp issues that were initiated in 1993, 2005 and 2008 (*Australia's Dinosaurs, Creatures of the Slime and Australian Megafauna*.)

(c) Other Activities

Outside the University I have been involved with the **display programmes** at the Queen Victoria Museum and Art Gallery (Launceston, Tasmania) and the Monash Science Centre. I have served on both **The Display Committee** and **The Sciences Humanities Committee** at the Museum of Victoria (now Museum Victoria) prior to 1996. I have served on advisory groups for Trinity Grammar (2000), for the Melbourne Zoo (1999), etc. regarding exhibition philosophy and implementation.

I have also been involved in the international liaison with groups in the People's Republic of China, Canada, the U.S.A., Argentina and the U.S.S.R. (C.I.S.) which has brought several exhibitions and research materials/scientific staff to Australia. I have been on several Australian Academy of Science-sponsored research and research evaluation trips to China and Japan in 1979, 1997, another in 2000-early 2001 and one in 2005-6.

In 1984 I was involved in producing a 55-minute **documentary** prepared by Rob Gell and Graeme Cavenagh and subsequently purchased by Channel 10 Television, Australia, on palaeontological exploration of central Australia, entitled "Graveyard of the Giants". The documentary explains in layman's terms the purpose and value of scientific exploration in palaeontology, and was screened commercially in 1985.

In 1985 I was involved with the **Australian Broadcasting Commission** and **ANZAAS** Committee in organizing a segment on *time* for youth ANZAAS programme presented at the ANZAAS Conference, August 1986. Two 28-minute T.V. Ed educational documentaries were filmed by Channel 7 and the Victorian Education Department about the content of the ANZAAS programme, which I wrote and helped produce. This material was also used in a documentary on the prehistory of Australia prepared by the A.B.C. and another by Channel 0/28 T.V. on the Australian megafauna. Subsequent to this I have been involved with other T.V. Ed. documentaries and the A.B.C.'s **Earthwatch**, **7:30 Report**, and **Quantum** programmes as well as several documentaries filmed for the USA and for world market (WQED Pittsburg, Wall to Wall Television, **BBC**, (*Palaeoworld*, *Walking with Dinosaurs*) etc.). I was one of 6 scientists in 1995 selected for 30 minute interview by Quantum (screened in January 1995). Filmed for Quantum in Russia for documentary on palaeontology in 1994. Since 1995 have worked with the BBC and further with the Australian ABC. I have also written and presented nine earth science programmes (1 hour) for the **SOFNet Horizons series** in Victoria - a university extension into schools by Monash University with the Victorian Department of Education - from 1996-1998. Principal in production of **Toyota** ad - joint project with the *National Geographic Society*. Examples of other documentaries in which I have been involved include: *Arctic Dinosaurs*, NOVA Productions of WGBH (USA) (www.pbs.org/nova/arcticdino) in 2007-2008 (in part supported by an ARC Linkage Grant) and *Polar Dinosaurs, Catalyst*, ABC (aired on 18/09/2008)

In 2009 and 2010 I have been involved in producing a documentary with David Attenborough, Atlantic Productions and the BBC (U.K.) on the Rise of Animals (*First Life*), which I initiated and is based on my book of the same name, published by Johns Hopkins University Press, USA in 2007-2008.

I have served on the **A.B.C. (radio) advisory committee** for "Beyond the Backyard" a childrens' science show produced by Sara Mogridge, from 1987 to 1988.

Over the past few years I have also been active in presenting a number of public lectures

to clubs, societies, schools in an effort to bring current earth sciences research within the grasp of the non-scientist. One example was the keynote lecture in the Christmas lecture series at the National Science and Technology Centre, Canberra, Dec. 1991. Another, lectures at annual teachers' conferences in Queensland, New South Wales, Victoria and served as an advisor in the development of the earth science curriculum for primary and secondary schools in New South Wales (1999). I gave an invited plenary lecture at the Australian Geological Convention in Sydney in July 2000, etc. I was invited to be part of the lecturing personnel in the Victorian Department of Education's SET for SUCCESS scheme to improve the training of primary and secondary science teachers (1998-1999), presented the Royal Society of New South Wales Clarke Annual Lecture in 2005, presented a number of public lectures at the opening of travelling exhibitions at the Singapore Science Centre, the National Museum of Taiwan (Taichung), Kyoto University, Japan, the University of Washington, Seattle, etc. during 2005-2006. From 2006 to present I have given a number of keynote lectures and invited public lectures at meetings in Japan, Germany, Namibia, South Africa, Taiwan, Norway, Singapore, China, Saudi Arabia, Argentina, etc.

From 1987 to 1994 I offered several Council of Adult Education courses on Vertebrate Palaeontology, Geology, Earth History accompanied by weekend field trips. In 2004 I offered weekend Science Lectures in Palaeontology at The Monash Science Centre, Monash University, Melbourne, etc.

I have reviewed for the following granting bodies and publications: *Granting Bodies*: Australian Research Grants Committee, National Geographic Society, National Science Foundation (U.S.A.). I have reviewed for several publishing houses - e.g. Cambridge University Press. *Journals and other publications*: Alcheringa, Auk, British Ornithology, Condor, Emu, The Library Journal (New York), Natural History Museum of Los Angeles, Memoirs of the Queensland Museum, Records of the Australian Museum, National Geographic Research and Exploration, Records of the South Australian Museum, Royal Society of Victoria, Scanning Electron Microscopy, Smithsonian Institution Contributions to Paleobiology, The Journal of Vertebrate Paleontology, The Times on Sunday. I served for 3 years as an Associate Editor for the Journal of Vertebrate Paleontology. I currently serve as an associate editor for the journal *Palaeoclimates*.

I have served on a number of review boards including that of the National Museum of Australia commissioned by The Council of the National Museum of Australia in 2002-2003. (*Review of The National Museum of Australia. Its Exhibitions and public Programs. A Report to the Council of The National Museum of Australia. July 2003, 85 pp. as an example*)

(h) Academic Planning and Governance/Community Governance

Administrative duties at Monash University have included:

Hargrave Library Committee (until 1987)
Exclusions Committee for the Faculty of Science
Chair Selection Committee for the Earth Sciences Department
Senior Lectureship Promotions Committee

Readership Promotions Committee
Overseas Travel Grants Committee
Science Faculty Scholars Committee (until 1993)
The Editorial Advisory Committee
Steering Committee for the Women Changing: Changing Women
Project (1994-1995)
University Committee on the Quality Report, 1995
Research Services Division Users Group
Science Faculty Talk's To School's Task Force
Science Faculty's representative to the Faculty Board, Education
Biosciences Advisory Committee, 1999
Science Faculty Representative on Education Faculty Board, 2003-2005
Science Faculty Board, 2003-2008
Monash University Council, 2010-2013

I have served on a number of community advisory boards, including the
Science and Technology Advisory Board for Glen Waverley
Secondary College and for the Victorian Department of
Education Science and Technology Centre (SE Suburbs).
Elected Member of Environmental Advisory Committee to Monash City
Council, 2008-continuing.
Elected Member East Timor-Australian Victorian Local Government Association
Working Group, 2009 continuing
Chair, UN/UNESCO International Geological Correlation Project, Australian
Committee, 2009 continuing
Member, UN/UNESCO International Geological Correlation Project, International
Committee 2009 continuing; elected Leader, Global Change and Evolution
of Life theme.

(i) *REFEREES*

1. **Dr John M. Francis**
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Past Director, Queen Victoria Museum and Art Gallery
Australia
3. **Sir David Attenborough**
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9. **José Ramos-Horta**
President, Democratic Republic of Timor-Leste
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10. **Kirsty Sword-Gusmao**
First Lady, Democratic Republic of Timor Leste
Education Ambassador for the United Nations
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11. **Prof Walter Bock**,
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(j) **Summation**

The emphasis in my professional life over the last 30 years has been in two areas:

1. **Understanding the environmental changes that have affected Australia (and other parts of Gondwana) and that have shaped the evolutionary history of Australia's unique biota.** This research has involved comparative anatomy, biochemistry, and intensive field work. Two areas, Dinosaur Cove and Inverloch in southeastern Victoria, and Bullock Creek in the Northern Territory, have been singled out for detailed investigation. Related to this is an expanding programme in Patagonia in the Early Cretaceous sequences there. From 2002 to date, however, I have shifted my research into biological and environmental events of the Precambrian in conjunction with other Australian, Russian, Canadian and Namibian colleagues. (www.geosci.monash.edu.au/precsite)

I consider my most significant contributions in scientific research have been the revision of Ernst Mayr's ideas about the origin and evolution of the Australasian avifauna and the discovery and study of the first diverse biota containing polar Mesozoic terrestrial faunas. Ernst Mayr proposed in the 1940's that Australia's avifauna was derived from the northern hemisphere in a series of waves or invasions beginning in the late Mesozoic and early Cainozoic. My Ph.D. and early post-doctoral work, taking into account the development of plate tectonic ideas, challenged Mayr's ideas and suggested that many of the Australian endemics very likely originated in Australia or on some part of Gondwana. This work culminated in a monographic work published in 2003 ("*Magnificent Mihirungs. The Colossal Flightless Birds of the Australian Dreamtime*," 2003. P. Murray & P. Vickers-Rich. Indiana University Press, Indianapolis, 394pp.).

My work, together with that of my colleague Dr. Thomas H. Rich, on polar terrestrial faunas in SE Australia has also led to discovery and understanding of a dinosaur fauna, and associated biota, and some of the most ancient placental mammals unknown before our work over the last 25 years - a palaeocommunity with no modern counterpart - situated at a high latitude, with limited energy during wintertime stress, yet mild temperatures that existed for more than 20 million years. How this community survived and how rapidly it changed has implications for understanding mass extinction events and for making intelligent, historically-based predictions for the future.

Another significant contribution has been my interaction with the Institute of Vertebrate Paleontology and Paleoanthropology of Academia Sinica during the 1979 to present period and the Paleontological Institute of the Russian Academy of Sciences in Moscow, where I have tried to encourage and fund scientific research programmes, international exhibitions, joint field work, set up student exchanges and provide funding for these research groups who are struggling

due to the social and political conditions of the past two decades. Well over \$5,000,000 in a variety of funding types has been generated in this endeavour, most all channelled back into public education and scientific research.

For the past six years I have redirected my own research to the Late Neoproterozoic, focusing on the origin and early evolution of metazoans.

This has resulted in significant field work in Russia, Namibia and Australia, a successful international Geological Correlation Project (IGCP493; 2003-2009) and a new project IGCP 587 (2010-2015) plus exhibitions mounted on this topic. It will remain my principal research interest for the foreseeable future in cooperation with colleagues in Russia (Fedonkin, Ivantsov), Namibia (Hoffmann) and Australia (Gehling).

- 2. Communicating to the public the relevance and excitement of scientific investigation.** Such communication has been through public exhibitions, public lectures, T.V. documentaries, conferences, as well as providing literature for many different age groups - preschoolers to university educated adults. I have carried this interest into setting up a unique science communication centre at Monash University, **The Monash Science Centre**, which strives to bring primary and secondary students and the general public into direct contact with research scientists - and to develop curriculum and other educational materials as well as a variety of programmes that are the cooperative efforts of scientists, science educators, teachers, parents and students of all ages. **Monash University has supported this initiative with Monash Development Grants for 1993-2003 of more than \$5,000,000.00.** The Centre itself generates funds currently of approximately \$1,000,000 per annum to support such outreach activities. Outreach programmes for Pre-Tertiary education serve not only Australia but have been extended to Afghanistan, Russia, Argentina and are underway for Timor, Iraq and a number of other underserved parts of the world.

Curriculum Vitae

I have also worked with the tourism industry to bring science into their programmes hoping to foster environmental awareness and thus environmental appreciation and preservation (**Z-card project** with Australian Resorts, Qantas; guest guide for Lizard Island with P & O Resorts; National Geographic Lecturer on a trip down the Amazon in Brazil). Planning for current programmes for ecotourism in South America, Russia and Australia are underway in cooperation with The Monash Science Centre and The National Geographic Society. I have initiated programmes in Afghanistan, Timor-Leste and Argentina to bring basic science education materials to unresourced schools, refugee camps and children's hospitals, to develop science and technology curriculae for primary and secondary students in developing nations.

One project was to produce a book on the geology of Timor-Leste, at two levels (primary and early secondary) with the President José Ramos-Horta. The book has now been translated in 12 languages, 3 of which are Mother tongues for Timor-Leste.

