

## HOMER EUGENE LE GRAND

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### PERSONAL DETAILS:

U.S. citizen, Australian citizen, married, three married children, five grandchildren (so far!)

### ACADEMIC QUALIFICATIONS:

Ph.D.	History of Science	University of Wisconsin	1971
B.A.	History / Chemistry	University of North Carolina	1966

### ACADEMIC APPOINTMENTS:

Current: Professor, School of Philosophy & Bioethics, Faculty of Arts, Monash University

1999-2006 Professor and Dean, Faculty of Arts, Monash University

2000 Interim Dean, Faculty of Science, Monash University; Professor and Dean, Faculty of Arts, Monash University

1994-99 Professor and Dean, Faculty of Arts, University of Melbourne

1986 Visiting Professor, Department of History and Center for the Study of Science in Society, Virginia Polytechnic Institute and State University, Blacksburg, Virginia

1980-81 Associé in Géologie Fondamentale, U.E.R. des Sciences de la Terre, Université de Lille I, Villeneuve d'Ascq, France

1975-93 Lecturer; Senior Lecturer, Reader, Head of Department of History and Philosophy of Science (2 terms); Deputy Dean (1 term); Associate Dean Budgets (2 terms) in the Faculty of Arts, University of Melbourne.

1970-74 Assistant Professor, Department of History, Virginia Polytechnic Institute and State University

### TEACHING AND LEARNING

I normally teach three or four subjects (2<sup>nd</sup>/3<sup>rd</sup> year) per year from among “Making Knowledge: Modern Scientific Controversies”, “Thinking About Science” (an on-line subject), and “Communicating Science” (a team-taught subject). I have agreed beginning 2008 to contribute an eight-week series of lectures and tutorials to the First-Year sequence in History & Philosophy of

Science at the University of Melbourne. I use a range of electronic resources including on-line resources and interactive material on CDs.

#### ADMINISTRATION / ACADEMIC LEADERSHIP

At Monash University as Dean of the Faculty of Arts my contributions included serving as a member of the Vice-Chancellor's International Group with special responsibilities for North America and Indonesia; responsibility for academic planning, development and staffing for Arts programs at Monash Malaysia and Monash South Africa; serving on around 25-30 committees and working groups ranging from membership of the Committee of Deans to Chair of the Monash Committee for the Arts. As Dean I also chaired all selection committees for tenurable and fixed-term academic positions in the Faculty of Arts (18-25 per year). At the University of Melbourne, I served as Head of Department, Associate Dean (Budgets), and Deputy Dean before becoming Dean, as well as serving on or chairing innumerable committees and working groups for the University, the Faculty of Arts, the Faculty of Science, and the Institute of Land and Food Resources. My major achievements were in the areas of finance & resources, academic planning and restructuring, and recruitment and development of academic staff.

#### INTERNATIONAL INTERESTS AND EXPERIENCE

Aside from international associations and activities as noted below under "Professional Associations", particularly at Monash I have gained considerable additional, rewarding international experience. I had a principal role in the development and oversight of academic planning and staffing for Arts programs at our two international campuses (Monash Malaysia, established shortly before my arrival, and Monash South Africa (in the planning for which I was closely involved). As Dean of Arts I oversaw the establishment of Monash's very successful centre in Prato, Italy and served for 3 years as the Chair of the Monash Europe Committee. I served for 2 years as a member of Monash's International Staffing Advisory Committee (established 2005), which assumed responsibility for establishing uniform and comprehensive staffing policies and procedures for our overseas campuses and centres. As Chair of Monash Americas through 2005, I was responsible for establishing comprehensive research relationships with a small number of North American universities.

Previously, at the University of Melbourne, as Dean I began to take an interest in supporting and developing programs in Asian studies. Toward the end of my term there, for example, I actively recruited Arief Budiman and Ariel Heryanto to the Indonesia program. At Monash University, I have taken a particular interest in building stronger relations between Monash and Indonesian universities, government agencies, and NGOs active in Indonesia. Monash has long had associations with such institutions as the University of Indonesia, Padjadjaran University, Universitas Pendidikan Indonesia, and Gadjah Mada University. These connections have been strengthened in the past few years by reciprocal visits, student exchanges, and joint projects. The latter have included such programs as Indonesian students serving as teaching assistants in Indonesian language and culture in Victorian public schools, a program at Monash for Indonesian journalists writing about Australia, visits to Monash of the Indonesia Young Ambassadors and of Indonesian cultural groups, meetings with distinguished Monash alumni in Jakarta and elsewhere, the establishment of the Herb Feith Foundation and of the Herb Feith Chair for the Study of Indonesia (recently filled), etc. I served for two years as one of the three directors of Monash's Tsunami Response Group. I and other colleagues began engaging with Universitas Islam Indonesia and several of the Indonesian state universities. A recent project (in which I had no role other than supporting) is the Disaster Victim Identification training program, sponsored by Monash University in association with the Australian and Singaporean governments: the first program took place in 2006 in Bandung. I was also the Dean with oversight of the Centre for European Union Studies established at Monash by the European Union in 2006.

## PUBLICATIONS:

37 refereed articles, book chapters, or contributions to separate works, initially in the history of 18<sup>th</sup> and early 19<sup>th</sup> century chemistry in France and, from the mid-1980s, in the history of the modern earth sciences.

3 edited books

1 authored book: *Shifting Continents and Drifting Theories*, Cambridge (1988)

1 co-authored book (with Professor William Glen) in preparation, provisionally titled *Arguing Accreted Terranes* which examines the interplay of social and cognitive interests in the development and application of the concept that substantial parts of several continents are made up of crustal and oceanic material “washed up” on and joined to them.

Full details:

Le Grand, H.E. - Lavoisier's Oxygen Theory of Acidity. *Annals of Science*, 29: pp. 1-18 (1972)

Le Grand, H.E. - Fixed Air: The Universal Acid. *Ambix*, 20: pp. 88-94 (1973)

Le Grand, H.E. - The Composition of the Fixed Alkalies. *Isis*, 65: pp. 59-65 (1974a)

Le Grand, H.E. - Ideas on the Composition of Muriatic Acid and their Relevance to the Oxygen Theory of Acidity. *Annals of Science*, 31: pp. 213-225 (1974b)

Boese, W.E. and H.E. Le Grand - From Sophism to Sophistication. *Context*, 8, no. 2: 21-25 (1974)

Le Grand, H.E. - The Conversion of C.-L. Berthollet to Lavoisier's Chemistry. *Ambix*, 22: pp. 58-70 (1975a)

Le Grand, H.E. - Why Teach HPS?. *Lab Talk*, 19: 15-16 (1975b) [reprinted, in *Science Education: Australian Practices and Perspectives*, ed. C. Oates, Melbourne (1979)]

Le Grand, H.E. and W. E. Boese - Chariots of the Gods? and all that: Teaching Pseudo-History in the Classroom. *The History Teacher*, 8: pp. 359-370 (1975)

Le Grand, H.E. - Berthollet, Acidity and the *Essai de Statique Chimique*. *Isis*, 67: 229-238 (1976a)

Le Grand, H.E. - F.U.T. Aepinus, in *The Modern Encyclopedia of Russian and Soviet History*, ed. J.L. Wiczynski, vol. 1, Academic International Press, pp. 45-46 (1976b)

Le Grand, H.E. - D.N. Anuchin, in *The Modern Encyclopedia of Russian and Soviet History*, ed. J.L. Wiczynski, vol. 2, Academic International Press, pp. 61-62 (1976c)

Le Grand, H.E. and F.J. Clendinnen - The Social Responsibility of Science. *Neutrino*, 7: pp. 17-20 (1976)

Le Grand, H.E. - Genius and the Dogmatization of Error. *Organon*, 13: pp. 193-209 (1977a)

Le Grand, H.E. - A.P. Borodin, in *The Modern Encyclopedia of Russian and Soviet History*, ed. J.L. Wieczynski, vol. 5, Academic International Press, pp. 137-140 (1977b)

Le Grand, H.E. and W.F. Gill - *The Historical Context of the Michelson-Morley Experiment*. *Lab Talk*, 21: pp. 2-5 (1977)

Le Grand, H.E. - *Galileo's Matter Theory*, in *New Perspectives on Galileo*, eds. R.E. Butts and J.C. Pitt, D. Reidel, Dordrecht: pp. 197-208 (1978a)

Le Grand, H.E. - A.M. Butlerov, in *The Modern Encyclopedia of Russian and Soviet History*, ed. J.L. Wieczynski, vol. 6, Academic International Press, pp. 58-62 (1978b)

Le Grand, H.E. - *Chemistry in a Provincial Context: The Montpellier Societe Royale des Sciences*, *Ambix*, 29: pp. 88-105 (1982a).

Le Grand, H.E. - C.A. Riche's Plans for the Scientific Study of the South-West Pacific. *Historical Studies of Australian Science*, 5: pp. 33-40 (1982b)

Le Grand, H.E. - *Theory and Application: The Early Chemical Work of J.A.C. Chaptal*. *British Journal for the History of Science*, 17: pp. 31-46 (1984)

Le Grand, H.E. - *Specialties, Problems and Localism: Reception of Continental Drift Theory in Australia 1920-1940*. *Earth Sciences History*, 5: pp. 84-95 (1986a)

Le Grand, H.E. - *Steady as a Rock: Methodology and Moving Continents*, in *The Politics and Rhetoric of Scientific Method: Historical Studies*, eds. J. Schuster and R. Yeo, D. Reidel, Dordrecht: pp. 97-138 (1986b)

Duckworth, C.R. and H.E. Le Grand, eds. - *Studies in the Eighteenth Century 6*, Johns Hopkins University Press for the College of William and Mary, Baltimore: iv + 198 pp. (1987)

Le Grand, H.E. - *Drifting Continents and Shifting Theories*, Cambridge University Press, Cambridge: vi + 313 pp. (1988a)

Le Grand, H.E. - *Paleomagnetic Research at the Carnegie Department of Terrestrial Magnetism 1938-1957*. *EOS: Transactions, American Geophysical Union*, 69 no. 44: 1158 (1988b) (abstract only)

Le Grand, H.E. - *Conflicting Orientations: John Graham, Merle Tuve, and Paleomagnetic Research at the DTM, 1938-1958*. *Earth Sciences History*, 8: 55-65. (1989a)

Le Grand, H.E. - *Paleomagnetism and Continental Drift: Historical Introduction*, in *The Encyclopedia of Solid Earth Geophysics*, ed. David E. James, Van Nostrand Reinhold, New York, pp. 901-909. (1989b)

Le Grand, H.E., ed. - *Experimental Inquiries* (Kluwer, Dordrecht), xviii + 272 pp. (1990a)

Le Grand, H.E. - *The Rise and Fall of Paleomagnetic Research at the DTM*. *EOS: Transactions, American Geophysical Union*, 71: 1043-1044. (1990b)

Le Grand, H.E. - *Theories of the Earth as Seen from Below*, pp. 205-232 in R.W. Home & S.G. Kohlstedt, eds., *International Science and National Scientific Identity* (Kluwer: Dordrecht). (1991a)

Le Grand, H.E. - Pionnier mais pas héros, pp.76-81 in Alfred Wegener: La dérive des continents, Les cahiers de Science et Vie: Les grands controverses scientifiques, No 3. (1991b)

Le Grand, H.E. - Chopping and Changing at the DTM 1946-1958: M.A. Tuve, Rock Magnetism, and Isotopic Dating. *History of Geophysics*, 5: 173-184. (1993a)

Le Grand, H.E. and W. Glen - Choke-Holds, Radiolarian Cherts, and Davy Jones's Locker. *Perspectives on Science*, 1: 24-67. (1993b)

Le Grand, H.E. - Paleomagnetism, 2500-word entry in Gregory Good, ed., *Sciences of the Earth*, vol. 2: 651-655. New York: Garland. (1998)

Le Grand, H.E. and D. Zhu - Plates, Politics and Localism: Geological Theory in China, *History and Anthropology*, 11, no. 2-3: 1-37. (1999)

Oreskes, Naomi with H.E. Le Grand, eds. – *Plate Tectonics: An Insider's History of the Modern Theory of the Earth* (Westview Press: Boulder) xxiv + 424 pp. (2001). *N.B.* I was responsible for initiating the project and soliciting and editing some contributions but because of my duties at Monash, the bulk of the work was carried by Naomi; I would rate her portion of the project as 90%.

Le Grand, H.E. - Plate Tectonics, Terranes and Continental Geology, pp. 199-213 in D.R. Oldroyd, ed., *The Earth Inside and Out* (Geological Society Special Publication 22, London). (2002)

Le Grand, H.E. and W. Glen - The Accreted Terrane Controversy or Continental Geologists Strike Back, in K. R. Benson & F. Rehbock, eds., *Oceanographic History: The Pacific and Beyond* (University of Washington Press: Seattle), 493-501. (2003)

#### HIGHER DEGREE SUPERVISION:

I have been the sole supervisor or co-supervisor of 10 completed Ph.D.s and 5 M.A.s. My most recent completion was Dr Sandra Close (completed 2001; co-supervised by Professor Chris Wilson, School of Earth Sciences; "Australia's Third Gold Boom: An Analysis and Historical Perspectives"). I have not accepted postgraduate students after taking up my position at Monash due to the nature of my other responsibilities, though I do serve as an associate supervisor.

#### CURRENT RESEARCH:

I am pursuing several projects that have at their core an examination of twentieth-century scientific controversies. These involve an analysis how networks of scientists, equipment, techniques, theories and data develop during the contestation of knowledge claims in the earth sciences.

One is a monograph with the working title "Plate Tectonics Goes Ashore: Arguing Accreted Terranes", co-authored with William Glen, which examines the on-going controversy over the accreted terrane concept.

A second is the continued refinement of a Web-based and CD-ROM self-study unit on the structure and rhetoric of scientific papers, which takes as a key example the 1980 Alvarez *et al.* paper in *Science* which put forward the idea of a bolide impact as the cause of the extinction of the dinosaurs (and many other species at the end of the Cretaceous). Walter Alvarez uses the third version in his classes at UC-Berkeley. I am now trialling the fourth version.

## PROFESSIONAL ASSOCIATIONS

International Commission on the History of Geological Sciences (1998-); Steering Committee for History, American Geophysical Union (1995-), American Geophysical Union, Geological Society of Australia; History of Earth Sciences Society; Sigma Xi

## HONOURS AND AWARDS

Morehead Scholar and Phi Beta Kappa (University of North Carolina); Sigma Xi (Wisconsin); Sue Tyler Friedman Medallist of the Geological Society of London (“for distinguished contributions to the history of earth sciences”); International Fellow of Virginia Polytechnic Institute; Honorary Member of Golden Key Honor Society; Honorary Fellow of Mannix College

## OTHER INTERESTS

3 married children and their families, 1967 Ford Mustangs, The Athenaeum Club, fishing, Board of Directors of the Postcolonial Institute, American football (including 20 years’ service as in the positions of back judge, field judge, line judge, head linesman, or umpire for the Victorian Gridiron Officials’ Association), Test Cricket, 027 and HO model railroading with my grandchildren.