

CURRICULUM VITAE

G.A. HORRIDGE, M.A., Ph.D., Sc.D., F.A.A., F.R.S.

- Born Dec 1927** Married Audrey (née Lightburne), 4 children, Mark, Alison, Naomi, Rebecca.
- 1946** Open Scholarship at St. John's College, Cambridge England, from King Edward VII School, Sheffield, England.
- 1950** First Class Honours in Natural Sciences Tripos, Cambridge.
- 1953-54** Scientific Officer and then Senior Scientific Officer at Department of Structures at the Royal Aircraft Establishment, Farnborough.
- 1954-56** Research Fellowship at St John's College, Cambridge. Senior Award from the Commissioners for Exhibition of 1851.
- 1956-69** Lecturer then Reader in Zoology, St Andrews University.
- 1959-60** Visiting Associate Professor at University of California, Los Angeles, and Fellow at Center for Advanced Study in the Behavioral Sciences, Stanford, California, USA.
- 1960-69** Director, Marine Laboratory, St Andrews University, U.K.
- 1965** Visiting Full Professor, Yale University.
- 1965-69** Numerous lecture tours. Periods of work in marine laboratories especially Plymouth, Millport, Naples, Port Royal (Jamaica), Friday Harbor (British Columbia), Ghardaga (Red Sea) and Lizard Island, Great Barrier Reef. including 2 summers working at Wood's Hole Marine Lab, Mass, U.S.A.
- 1969** Fellow of the Royal Society of London.
- 1969** Professor of Behavioural Biology, Australian National University, Canberra, Australia. Subsequently name changed to Neurobiology Department.
- 1972** Fellow, Australian Academy of Science.
- 1973-74** Visiting Fellowship, Balliol College, Oxford. UK.
- 1975** Chief Scientist, U S Research Ship. Alpha Helix, in the Moluccas, with base camp at Banda with American scientists and crew.
- 1976-77** Visiting Fellow, Churchill College, Cambridge. UK
- 1972-76-80-84** Examiner in biology, University Sains, Penang, and University of Malaya, Kuala Lumpur, Malaysia.
- 1987-1990** Executive Director, Centre for Visual Sciences Australian National University (Topics range over artificial seeing systems, mechanisms of visual processing, neural nets, modeling, and electrophysiology of vision in a variety of animals).
- 1992** Royal Society Visiting Professorship to work on Vision in monkeys, with Dr D. Perrett, University of St Andrews, Scotland, for 4 months June - September.
- 1993-4** Visiting Fellow, Churchill College, Cambridge, UK.
- 1993-present** University Fellow, then Emeritus Professor and Visiting Fellow, Australian National University.

RESEARCH INTERESTS

- a) Broad interest in the nervous basis of behaviour, sense organs and brains, as studied by the techniques of electrophysiology, anatomy and behaviour.
- b) Physics and physiology of the insect visual system as a pattern for artificial seeing systems. Insect Models of visual systems.
- c) Pattern Vision of the Honeybee. An experimental study started in 1992 and continuing through 2016.
- d) The history, distribution, uses, anthropology, engineering structures and rigs relating to the traditional boats of Island Southeast Asia and the ethnology of maritime societies in SE Asia.

BOOKS

- a) (With T H Bullock). The Structure and Function of the Nervous Systems of Invertebrates. 2 Volumes. Freeman, San Francisco, 1965.
- b) Interneurons. Freeman, San Francisco, 1968.
- c) The Compound Eye of Insects. (Edited) Oxford, 1975.
- d) The Prahau, Traditional Sailing Boat of Indonesia. Oxford in Asia, Kuala Lumpur, 1981, 2nd edition, 1986.
- e) Sailing craft of Indonesia. Oxford in Asia, 1986.
- f) Outrigger Canoes of Bali and Madura, Indonesia, Bishop Museum Press. Honolulu 1987.
- g) Natural and low-level seeing systems (joint ed.) Oxford Univ Press 1993.
- h) What does the honeybee see? 2009 ANU ePress. Copies can be downloaded free at <http://epress.anu.edu.au/> as well as at the unique URL: http://epress.anu.edu.au/honeybee_citation.html ..
- i) Perahu Layar Nusantara 2015; Penerbit Ombak ; Jogjakarta; in Bahasa Indonesia : redaksiombak@yahoo.co.id

PAPERS

250 papers on Sciences
20 titles on Indonesian Traditional Boats
10 titles on other topics

SOCIETIES

Fellow, Royal Society of England
Cambridge Philosophical Society
Society for Experimental Biology
Society for Nautical Research
Fellow, Australian Academy of Science

COMMITTEES

For 10 years, 1959-69, on the Council of the Scottish Marine Biological Association which governed three marine laboratories.
1975-80 Member covering Science on the German Ambassador's Committee for exchange fellowships with Australia.
1977-80 Minister of Science's Committee for Queen's Fellowships in Marine Sciences.
1973-76 Member of Vice-Chancellor's Policy Committee, ANU.
1981-3 Large Equipment Committee. Australian National University.
1990 Industry Forum of the Academy of Sciences
1991-3 Chairman of Section 7 Committee, Australian Academy of Sciences

LANGUAGES

Read German, French, Malay, Spanish, Italian, some Dutch.

OTHER INTERESTS

Problems of environment as related to biological sciences in South East Asia.
Languages, photography and drawing essential for travel and research.
Current research program on pattern vision of the honeybee.

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Email:- horridge@netspeed.com.au

Experience

Head of a Research Department - more than 32 years
St Andrews 1959-1969
Institute of Advanced Studies, ANU - 1969 - 1992

Concerned with planning research and getting it done.

Training in Research

Supervised more than 45 PhD students personally over the years.
A total of about 80 research workers at various levels have trained under my responsibility, 25 of them now full Professors, 6 are Fellows of the Royal Society of England, about 10 are in USA.

Relations with Industry and other universities - 1990 onwards

Dept of Industry and Technology grant for artificial vision
FUJITSU (Japan) support for insect and robot vision
Project with Royal Guide Dogs for the Blind
Industry Forum of the Academy of Sciences
Dept. of Electr. & Electronic Engineering Univ. of Adelaide (chip construction)

Assessments for the following

Science Research Council UK
Medical Research Council UK
Australian Research Council (in Science and also in the Humanities)
National Health & Medical Research Council
Fonds Recherche Suisse
National Science Foundation USA

Current Research Aim

2-way interaction between pure research and applications in Vision.

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1956-69	Fellowship from the Commissioners for Exhibition of 1851. Lecturer in Zoology then Director, Gatty Marine Laboratory, St Andrews University, Scotland.
1959-60	Visiting Associate Professor at University of California; Los Angeles; Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, California, USA.
1961-69	Reader in Zoology, St. Andrews University.
1965	Visiting Full Professor, Yale University, USA.
1955-69	Numerous lecture tours abroad including twice to Russia. Periods of work in marine laboratories, especially Plymouth, Millport, Naples, Port Royal (Jamaica), Friday Harbor (British Columbia), Ghardaga (Red Sea) Heron Island and Lizard Island, Great Barrier Reef.
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1987 onwards	Executive Director, Centre for Visual Sciences Australian National University.
1993-present	University Fellow, then Emeritus Professor and Visiting Fellow, Australian National University.

RESEARCH INTERESTS

- a) The nervous basis of behaviour, sense organs and brains, of lower animals from corals to insects.
- b) Physics and physiology of vision.
- c) Maritime cultures and traditional boatbuilding of Indonesia, S.E. Asia and the Pacific.
- d) Marine biology

BOOKS

- a) (With T H Bullock). The Structure and Function of the Nervous Systems of Invertebrates.
2 Volumes. Freeman, San Francisco, 1965.
- b) Interneurons. Freeman, San Francisco, 1968.
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18 titles on Indonesian Prahus
10 titles on other topics

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