

51 PhD students who did their thesis work under Adrian Horridge,
In approx. sequence in time.

If you have been omitted or misrepresented, please send an email to
horridge@netspeed.com.au

Published student projects from the Gatty.

Dorothy Rutherford. Electronmicroscopy of crab retina. QJMS 106, 119.

Tudor Barnard. Electronmicroscopy of locust eye. QJMS 106, 131.

Susan Boulton. Sense organs of Chaetognaths. PRS B, 168, 413.

PhD Student projects at the Gatty.

Reg. Chapman, 1961, fast and slow crab axons, worked at Naples Marine Lab, University College London, Prof of Physiology, Bristol University. Deceased.

John Scholes, 1961, from Kings College, London. discovered bumps (photon arrivals) in insect eyes. Later Researcher at Medical Research Centre, Kings College and then at University College, London University.

John and Reg were recommended to me by Brian Boycott, who said they were good for research although ruined by riotous student habits.

David Sandeman. 1961. Eyestalk movements of the crab, *Carcinus*. Moved to Canberra, Professor of Zoology, Uni. N.S.W.

David was sent by Alex Burton from the Uni Durban, S. Africa, and he managed to get a British passport because his grandfather had been an Irish citizen.

Steve Shaw. 1962, comprehensive 1st study of locust lamina neurons, moved to Psychology Dept, Dalhousie University, Halifax, Nova Scotia. Professor.

John Tunstall. Optics and electrophysiology of the retina of the locust. Moved to University of Leicester, UK

Richard Hudson. Electrophysiology of teleost fish muscles. Moved to 100 Mile House BC, then back to England. info@cresswater.co.uk. Now contracts to build reed beds and marshes for waste disposal, notably for rural freeway motor service centres. Richard arrived on a studentship given by the Development Commission for work on fish. He occupied a perpetually damp little room in the aquarium.

Jonathan Barnes. Pharmacology of ganglia of scyphozoan jellyfish. Movements of the eyestalks of the crab. Moved to Dept of Zoology, Glasgow Uni, Scotland. Retired . Labs now in Centre for Cell Engineering. Glasgow Uni, Jonathan started as a vacation assistant on the locust leg-learning preparation, the grew into the place.

Peter Hammond. Optics and electrophysiology of the retina of the plaice (teleost). Moved to Keele Uni, UK, Professor. Became an expert on the complex neurons of cat striate cortex.

John Armson. Transmitters in crab motor axons. Became Principal of the Anglican Theological College, Edinburgh, Dean of Rochester Cathedral. Applied for an MRC studentship. When John arrived for interview, he said he had enlisted as a novice at Mirfield Anglican College, so I telephoned to my old pal Fr. Hugh Bishop, got him out of chapel, and did a deal; so that I got the body for 3 years to do a PhD, then he would train for the ministry.

Pete Shephard. Eyestalk movements and optomotor memory of the crab, *Carcinus*. Moved to Huntsman Marine Station in St Andrews, New Brunswick. Canada. Returned to Scotland. Now sings and sells Scottish Folk songs. See <http://www.springthyme.co.uk/ssw/> Originally a St Andrews student.

Malcomb Burrows. Anatomy and electrophysiology of the control of the eye-stalk muscles of the crab, *Carcinus*. Moved to Eugene, Oregon, then to Zoology Dept, Oxford. Now Professor of Zoology, University of Cambridge. FRS. Malcomb was the first of the PhD students that recruited from Cambridge because he had no grant to do a PhD, so starting a tradition: Laughlin, Lillywhite, Payne, Hardy, Osorio.

PhD students moved with me to Australia

Rick Butler. Optics and electrophysiology of the retina of *Periplaneta*. Moved to McMaster Uni Medical School, Professor, Dean of Students. Originally Canadian. Retired.

Ian Meinertzhagen. Exact anatomy of the neurons of the insect optic lobe. Post doc Fellow, Development of the fly optic lobe. Moved to further post doc at Harvard University, then to Psychology Dept, Dalhousie University, Canada Council Killam Fellow, Professor. Originally from Aberdeen Uni.

Peter Shelton. Anatomy and electrophysiology of the lateral line organs of the *Xenopus* tadpole. Moved to University of Leicester, UK. retired
Originally a St Andrews student. His brother Richard, also at the Gatty, a duck shooter and enthusiastic about shooting and fishing, became Director of the Scottish salmon fisheries lab at Pitlochry.

Agis Ioannides. Optics and electrophysiology of the retina of *Lethocerus* (a bellastomatid hemipteran), moved to CSIRO then turned to music. Later, Director of the National Opera of Cyprus. Retired.

Agis was an Edinburgh medical student who was excluded from his home in Cyprus because there was a war with the Turks. So I found him a vacation job at the Gatty and eventually he became a PhD student and came to Australia. Later he went back to a Germany with a maestro conductor scholarship. His daughter Sarah conducts the El Paso Symphony Orchestra in the USA.

PhD students appointed in Australia

Simon Laughlin. Electrophysiology of the retina of the bee. Appointed Fellow, RSBS, then moved to Zoology Dept, Cambridge. Professor, FRS

Jenny Kien, Electrophysiology of the optomotor system of the locust. Moved with Randolph Menzel to the Tech University, Darmstadt, finally to Brain Sciences Program, Bar-Ilan Uni, Israel. Professor.

George Boyan, Electrophysiology of the auditory system of the locust. Moved to Basel, then to München, Professor.

Paul Whittington, Worked with Eldon Ball. Development of insect nervous system. Moved to Armidale, then to Melbourne.

Peter Lillywhite. Electrophysiology of the photoreceptors of the locust, with calibration of photon capture. Moved to Cambridge, left Science.

Pete Simmons. Electrophysiology of the flight system of the dragonfly. Moved to Cambridge then to the University of Newcastle, England. Professor. Originally from Zoology Dept, Oxford, from where I lured him away after my sabbatical there in 1973, much to Pringle's annoyance.

Sally Stowe, student of Sandeman, crab eye. Stayed at RSBS. Mistress of the Electronmicroscopy Unit. Retired.

Mark Leggett, Electrophysiology of polarized light sensitivity in the optic lobe of the shore crab. Moved to Tasmania, Now Director, Transport System Performance, Department of Transport, Queensland.

Kim Bryceson. Electrophysiology of the photoreceptors of the yabbie (freshwater crayfish). Stayed in Canberra with the Australian Plague Locust Commission. Now on Faculty at University of Queensland doing analysis of Agri-food supply chains.

Fred Doujak. Electrophysiology of the photoreceptors of the ghost crab. Demonstrated the sensitivity to a single star and polarization sensitivity by recording single photons. Became a dentist in Vancouver, Canada. Now sailing the coasts of S. America, perhaps across Pacific.

Benno Meyer Rochow. Optics and electrophysiology of the retina of nocturnal beetles. Moved to Hamilton, NZ then to Kingston, Jamaica, now Professor of Zoology at Oulu, Finland and Jacobs University, Bremen, Germany.

Matti Hennig, Electrophysiology of the auditory receptors of insects. Moved to Tübingen, then to TU, Berlin, Professor.

Brian Oldfield. Electrophysiology of the auditory receptors of the crickets. Moved to Uni Queensland. CEO of a software company for Real Estate management.

Julie Thacker. Optics, anatomy and development of the retina of nocturnal beetles. Returned to a career as mortician.

Ted Maddess. Neurons of the optic lobe of the fly. Stayed at RSBS. Professor.

Richard Payne. Electrophysiology of the photoreceptors of the locust and fly. Moved to Baltimore, now Professor.

Roman Poznanski. Mathematician. Professor at Univ Malaya, Kuala Lumpur.

Andreas Dubs. Information processing in the visual system of the fly. Moved to Australian Plague Locust Commission. Now Executive Director of the Australian Chicken Meat Federation.

Richard Guy. Neurons of the optic lobe of the fly. Moved to RMIT, Melbourne. Expert on teaching and learning technology to improve student experience, i.e., stuffing it in ?

David Williams, student of David Blest. Electron microscopy, optics and electrophysiology of spider, fly and locust eyes. Now Professor of Ophthalmology and Neurobiology, UCLA, California.

Roger Hardie. Electrophysiology of the photoreceptors of the fly. Moved to MaxPlanck, Tübingen. Returned 1985 to Anatomy Dept, Cambridge. Professor.

Tomislav Matic. Electrophysiology of the photoreceptors of the orchard butterfly, *Papilio aegis*. Stayed in Canberra briefly with Australian Plague Locust Commission now CEO of IT Company in Canberra.

Sam Rossel. Optics, behaviour and electrophysiology of mantis vision. Moved to Switzerland. Professor.

Danny Osorio. Electrophysiology of the optic lobe of the locust. Moved to Biol Sci. Sussex University, UK. Professor.

Zoran Alexic. Organization of active arrays, Moved to Japan.

Eric Warrant. Optics and electrophysiology of the retina of nocturnal beetles. Moved to Lund Uni, Sweden. Dim-light vision. Professor.

Jonathon Howard. Electrophysiology of the photoreceptors of the fly. Moved to Sussex then to San Francisco. Now Director of the Max Planck Inst. Cell Biology, Dresden.

Bruce McGregor. from New Zealand, Image reconstruction by reverse convolution. Returned to NZ.

Jian Shi. Exact study of lamina retinula cells of the locust. Moved to Physiology Dept, Fudan Uni, Shanghai. Professor, now works on mammalian CNS.

Qijian Sun. Neurons of the optic lobe of the locust. Moved to a research job in University of Sydney, Medical School.

Zhefei Jin. Neurons of the optic lobe of the locust. Moved to Florida, then to Hong Kong.

Mats Holmqvist. Escape response of the fly. Returned to Sweden. Now works for Novartis, Boston, USA

En-Cheng Yang. Neurons of the dragonfly optic lobe, National Taiwan University, Professor.

Roger Dubois. Neurons of the dragonfly optic lobe, moved to Adelaide, to work with David O'Carroll.

Andrew James. Exact study of lamina monopolar cells of the locust lamina. Remained at Research School of Biological Sciences. Expert on extracting useful data from arrays of electrodes on the human scalp.

Javaan Chahl. Design and construction of freely moving robots based on the principles of insect vision. Moved to a research job in DSTO Adelaide.