

Professor Rod Keenan – Questions on Notice – Environment Protection and Biodiversity Conservation Amendment (Regional Forest Agreements) Bill 2020 inquiry - Senator Rice

Please outline the funding amounts and dates for funding you've received from forestry bodies, including government and businesses entities.

1. PERSONAL DATA

CURRICULUM VITAE

(February 2021)

Name: Rodney John Keenan
 Title: Professor of Forest and Ecosystem Science
 Place of birth: Ouse, Australia
 Citizenship: Australian

2. EDUCATION

University

1989-93: University of British Columbia, Vancouver, Canada.

Award: Ph.D (Forest Ecology)

Thesis title: Structure and function of western redcedar and western hemlock forests on northern Vancouver Island.

Supervisor: Professor J.P. (Hamish) Kimmins

1975-78: Australian National University, Canberra.

Award: Bachelor of Science (Forestry)

Academic awards:

1992-93: Donald S. McPhee fellowship. University of British Columbia.

3. FIELDS OF SPECIAL COMPETENCE:

Forest management, forest restoration, forest and environmental policy, community forestry, climate policy, carbon markets, climate adaptation and forests. Research leadership and management. Research-policy interface.

4. OTHER ACADEMIC EXPERIENCE

1988-89:	Visiting researcher, Tokyo University of Agriculture and Technology, Japan.
2005	Visiting Expert, UN Food and Agriculture Organisation, Rome
2014	Visiting researcher, CATIE, Costa Rica
2014-15	Visiting researcher, Grantham Institute for Climate Change, London School of Economics
2019	Visiting Scholar, Centre for South East Asia Studies, Kyoto University

5. EMPLOYMENT

Current	Professor and Chair of Forest and Ecosystem Sciences
Sept 2011- July 2014	Head of Department of Resource Management and Geography, University of Melbourne
July 2009 - June 2014	Professor and Director of the Victorian Centre for Climate Change Adaptation Research
Duties:	Establishment and leadership of a research centre on climate change adaptation involving researchers from five Victorian universities. Leadership of an academic department of 40 staff and 50 post-graduate students. Research in climate change, forests and climate change mitigation, sustainable forest management and policy issues.
2005-2009	Professor and Head, School of Forest and Ecosystem Science The University of Melbourne
Duties:	Leadership and management of a School of 40 academic and 30 professional and research support staff. Management of a \$3.5M per year research partnership with the Victorian Government. Cooperative Research Centre program management (Bushfire, Forestry, Wood Innovations). Research and teaching.
2001-2005	Principal Research Scientist and Program Leader, Forest and Vegetation Sciences, Bureau of Rural Sciences, Dept. Agriculture, Fisheries and Forestry, Canberra.
Duties:	Scientific leadership and management of team of more than 20 staff providing scientific information, analysis and advice to policy makers on forest and vegetation issues for national policy development. Major projects included: <ul style="list-style-type: none"> • The National Forest Inventory, a cooperative, Federal-State venture providing authoritative information on Australian forests to international bodies, for national reporting, the forest industry and the Australian community.

- National Vegetation Information and Analysis. Applying National Vegetation Information for better natural resource management.
- Science for Forest Industry Development. Including plantations and private native forests.
- Providing scientific advice for Regional Forest Agreements and other national policies and international processes. Representing at international meetings, including UN-FAO Committee on Forestry and the Montreal Process.
- Planning and inventory methods for sustainable management of forests in Papua New Guinea (funded by ACIAR).

1999-2001 Senior Research Scientist (forests and climate change), Bureau of Rural Sciences

Duties: Research on climate change mitigation in forests and natural resources. Scientific advice to policy makers on forests and climate change.

Represented Australia at UNFCCC Subsidiary Body and COP meetings, IPCC meetings. Member of the National Forests Greenhouse Taskforce, National Forest Carbon Accounting Standard group, National Bioenergy Taskforce.

Project leader in the Cooperative Research Centre for Greenhouse Accounting

1994 - 1998 Principal Scientist (Tropical Silviculture) and Officer-in-Charge, Tropical Forestry, Queensland Forestry Research Institute, QDPI, Atherton.

Duties: Management and implementation of research programs in plantation development of Australian native species, agroforestry, land rehabilitation, management of tropical tree seed orchards, and the ecology and management of sandalwood species.

Project leader, CRC Tropical Rainforest Ecology and Management

Project leader, QFRI/PNGFRI rainforest growth modelling project

Project manager, National Farm Forestry Silviculture Project.

Project leader, Queensland government Private Plantations Initiative.

Supervision of 10 staff (including research scientists and graduate students).

Training of local and international staff.

1989-1993 Graduate Research and Teaching Assistant, Dept. Forest Sciences, University of British Columbia, Vancouver, Canada.

Duties: Design and implementation of a research project to quantify biomass distribution

and dynamics in temperate coniferous rainforests on Vancouver Island.

Presentation of lectures to students and forest managers. Development of an inter-departmental discussion group on forest dynamics.

1985-88: Planning Forester, Forestry Commission of Tasmania, Hobart.

Duties: Preparation of working plans for State Forest areas. Use of GIS to plan for timber and non-wood values. Coordination of timber volume information for the Federal Commission of Inquiry into the Lemonthyme and Southern Forests. Supervision of a group of professional and technical staff. Designing and teaching a course on forest management and mensuration to trainee forest technicians.

1981-84: Research Officer, Forestry Commission of Tasmania.

Duties: Investigation of problems associated with the regeneration of high altitude eucalypt forests. Survey of site factors associated with poor growth; mapping of potential problem areas; establishment of silvicultural trials to rehabilitate failed areas and to develop more appropriate silvicultural systems (eg. shelterwood, group selection) for these forest types. Policy development, extension and advice to field staff.

1980: Consulting forester. FORTECH Consultants, Canberra, and Launceston.

Forest inventory, and preparation of information for an environmental impact statement on woodchip exports.

Awards:

1989: Productivity in Government Award, by the Government Technology Users Association, shared with four other members of the Forest Planning Section of the Forestry Commission in Tasmania.

5. RESEARCH GRANTS AND CONSULTANCIES

2021	Trees on farms, a tool for decision making. Meat and Livestock Australia, Victorian Government and Tasmanian Climate Change Office. \$500,000 Increasing birdlife in eucalypt plantations for insect pest control (PhD Student project). With Dr Luke Kelly. PF Olsen and Newforests. \$96,366
2020	Culture, Training and Skills Assessment Report Prepared for the North-North West Tasmania Regional Forestry Hub \$38,000 Climate Change and Carbon Policy Assessment Report Prepared for North-Northwest Tasmania Regional Forestry Hub \$14,000

	Analysis of abatement opportunities in the LULUCF sector. Victorian Government, Department of Jobs, Precincts and Regions. \$16,400
2019	Policy analysis for forest plantations in Lao PDR and Vietnam. Australian Centre for International Agricultural Research \$100,000
2018	Growing landscape carbon. Victorian Climate Change Innovation Grant. \$255,000
2017	Next Generation Forest Plantation Investment. Forest and Wood Products Australia, \$855,000.
2016	Improving policies for forest plantations to balance smallholder, industry and environmental needs in Lao PDR and Vietnam. Australian Centre for International Agricultural Research. Grant ADP-2014-047. Total value \$999,000
2012	Expert review of 'Assessing Barriers and Solutions to Financing Adaptation Projects in Africa: a report to the International Development Research Centre' by Climatekos.
2009-2014	Victorian Centre for Climate Change Adaptation Research. Victorian Government. Total value \$5M.
2009 - 2011	Responding to Climate Change: Australia's Environmental Law and Regulatory Framework. Australian Research Council, Discovery Grant with Godden and Peel (Melbourne Law School). Total Value \$235,000.
2008-2009	Carbon storage in residential housing in Australia. Forest and Wood Products Australia. Total value \$180,000.
2007 - 2010	Assessment, management and marketing of goods and services from cutover native forests in Papua New Guinea. Australian Centre for International Agricultural Research. Total value \$800,000.
2005 – 2009	Economic Analysis of an Environmental Challenge: Salinity, Uncertainty and Property. Australian Research Council Linkages Grant with Fox (UNSW) and Grafton (ANU) – total value \$142,000.
2001-2005	Planning methods for sustainable forest management in Papua New Guinea Australian Centre for International Agricultural Research.
2002-2004	Bioenergy Atlas of Australia: an online Geographic Information System and Decision Support System. Australian Greenhouse Office and Rural Industries Research and Development Corporation.

- 1999 and 2000 Australian Greenhouse Office: Scientific advice on forest biomass estimation and Bush for Greenhouse. Reports on 'National Carbon Accounting System for Land-Based Sources and Sinks: Requirements of Full Carbon Accounting'.
- 1994 Consultant on inventory design to the NSW Old Growth Forest Project.
- 1992 An inventory of the structural attributes of old-growth forests in the Tofino Creek watershed, British Columbia Ministry of Forests (assisting Mr. Alex Inselberg, a Vancouver forestry consultant).
- 1992 The effects of clearcutting and scarification on soil properties and non-crop vegetation on northern Vancouver Island, for the B.C. Ministry of Forests (with Dr. C. Messier, Universite du Quebec a Montreal).
- 1991: Inventory of mass and nutrient content of woody debris and forest floor material in western redcedar and western hemlock forests on northern Vancouver Island, for the B.C. Ministry of Forests (with Drs. Kimmins and Prescott, at UBC).
- 1991: Literature review of the ecological importance of woody debris, B.C. Ministry of Forests (assisting Dr. C. Caza, at UBC).

6. EDITORIAL BOARD MEMBERSHIP

Australian Forestry

Forest Ecology and Management

Forests

Journal of Forests and Livelihoods

Reviewer for PNAS, Bioscience, International Environmental Law, Global Environmental Change, International Journal of Environmental Research and Public Health, Forest Policy and Economics, Land Use Policy, Restoration Ecology, Solid Earth Discussions, iForests, Journal of Forest Economics, Sustainability, Urban Climate, Austral Ecology, WIREs Climate Change, Regional Environmental Change, Carbon Management, Australian Journal of Agricultural and Resource Economics, Small Scale Forestry, Journal of Environmental Management, Canadian Journal of Forest Research, International Forestry Review.

7. COMMITTEE MEMBERSHIP

UN FAO, Advisory Group on the Global Forest Resource Assessment (Member 2003-2015 and past-Chair)

Vicforests Science Committee (2020 onwards)

Responsible Wood (Australian PEFC standard). National Standard Review Committee

Australian Academy of Science audit of Australian climate science capabilities and requirements (2016)

City of Melbourne Parks and Gardens Advisory Committee (November 2013-2020)

Project Advisory Group for *Sustainable land use options for economic development and Biodiversity conservation in the Trans-Fly region*, Western Province, PNG. WWF and Government of Western Province (Member since March 2011).

Forests and Wood Products National R, D and E Forum (Member since October 2011).

NSW and Victorian River Red Gum Scientific Advisory Committee (member since April 2011)

Strategic Perspectives Think Tank for the Victorian State of the Environment Report, 2012-13

FSC Australia Controlled Wood Assessment Team (2009-10)

National Forest Research Priorities and Coordination Committee

(Member 2002-09, and Chair 2005-06 and 2008-09)

National Forestry and Forest Products Committee (ex-officio, 2008).

Member, Cooperative Research Centre for Wood Innovations Governing Board (2006-2008)

Member, Victorian Association of Forest Industries Community Council (2009-2011)

9. CONFERENCE ORGANISING COMMITTEES

Chair of the Organising Committee for the Australian and New Zealand Institute of Foresters Conference, Creswick, Victoria April 2015.

Program Committee, Royal Society of Victoria Symposium on *Climate Change Science: Impacts and Adaptation for Victoria*. 20-22 September 2012.

Chair of the Organising Committee for the Australian Centenary of Forestry Education and Forest Science Conference, Melbourne September 2010.

Member of the Organising Committee for the XX IUFRO World Congress, Brisbane, 2005.

Chair of the Organising Committee for Prospects for Australian Forest Plantations Conference, Canberra, 2002.