

CURRICULUM VITAE

JANE KIRSTEN TURPIE

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Present occupations: Director: Anchor Environmental Consultants (Pty) Ltd.
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South African Association of Professional Natural Scientists 400577/14

Summary profile

Dr Turpie has a background in Ecology and has also worked and taught in the applied fields of Conservation Biology and Resource Economics for the past 19 years. She is currently Director of Anchor Environmental Consultants and Deputy Director of the Environmental-Economics Policy Research Unit, School of Economics, University of Cape Town, which is part the international Environment for Development Initiative. Her interests and experience are broad and multidisciplinary, and she thrives on the integration of ecological and socio-economic aspects of natural resource management problems. Her work has included avifaunal studies, estuarine ecology, biodiversity and ecosystem health assessment, water and environmental flows, quantification and valuation of ecosystem services, socio-economic/livelihood assessments, analysing community dependence and pressures on natural resources, modelling ecological-economic systems (estuarine, river systems, wetlands, fynbos, thicket and woodland), incentive and financing systems for conservation, and integrating ecosystem services into conservation and development planning. She has supervised 39 postgraduate students, published 45 peer-reviewed papers in ecology and economics disciplines, written 12 book chapters, 5 books/published reports and at least 142 technical reports.

Projects undertaken include:

Period	Country	Client	Project, Tasks
2014-15	South Africa, Tanzania, Uganda	World Bank, through AECOM Washington	Project in progress: Promoting Green Urban Development in Africa: enhancing the relationship between urbanization, environmental assets and ecosystem services Position and tasks: Lead Economist, responsible for the main task, the ecosystem services assessment.
2014	South Africa	Western Cape Government	Project: EcolInvest – Priorities and opportunities for mobilising private sector investment in the Western Cape's natural capital. Position and tasks: Project leader. Rapid estimate of value of EI and losses due to degradation; assessment of financing options; private sector motivations; evaluation of existing initiatives; recommended government actions.
2013	South Africa	Conservation International	Project: An evaluation of wetland restoration as an ecosystem-based Adaptation option for climate change in Namaqualand Position and tasks: Intern supervisor.

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2013-14	Zambia	UNEP, through WCS New York	Project: The value of forests and role of REDD+ in a Green Economy in Zambia Position and tasks: Lead author, ecosystem services valuation specialist
2013-14	African continent	UNEP	Project: An evidence-based assessment of the investments required to meet the Aichi targets on the African continent. Position and tasks: Sole author.
2013-14	Lesotho	Lesotho Highlands Development Authority	Project: Biological monitoring of the catchments of the Katse and Mohale Dams: a comparison with the pre-construction baseline. Position and tasks: Project leader for large multidisciplinary team
2013-14	South Africa	iSimangaliso Wetland Park Authority & World Bank	Project: Analysis of options for restoring the connection between the St Lucia and Mfolozi estuaries. Position and tasks: Project co-leader, Socio-economics Task Leader; Ecological-economic modelling, development of an estuary version of the DRIFT scenario analysis tool; valuation of ecosystem services.
2012-13	Pakistan	Hagler-Bailey	Project: Environmental flow assessment for the proposed Neelum-Jhelum Hydropower dam. Position and tasks: Advisor for the socio-economics component.
2012	South Africa	SANParks	Project: Potential impacts of the proposed Addo MPA on commercial fisheries
2012	Global	DEFRA, UK	Project: Estimating the global cost of meeting the CBD Aichi Target 9 to control of alien invasive species by 2020.
2012	South Africa, Costa Rica & Tanzania	EfD Gothenberg University	Project: Marine protected areas and small-scale fishing behaviour: a comparative analysis between South Africa, Tanzania and Costa Rica.
2012	Namibia	Flora and Fauna International	Project: Biodiversity offset study for Uranium mining in Namibia. Position and tasks: Resource economist: Spatial valuation of ecosystem services in Erongo district.
2012	South Africa	CapeNature	Project: Determination of the ecological water reserve for the Uilkraals estuary. Position & tasks. Technical co-leader and collation of final report.
2011-12	South Africa	Fiscal & Financial Commission	Project: Vulnerability of rural communities to climate change in South Africa
2011-12	South Africa	Dept of Agric, Fisheries & Forestry	Project: Editing, stakeholder consultation and finalisation of the Sector Plan for the Department of Agriculture, Forestry and Fisheries
2011-12	South Africa	G7 Renewable Energies	Project: Preconstruction monitoring of avifauna at two proposed wind energy sites in the Karoo, South Africa Position and tasks: Project leader, study design and team management.
2010	Botswana	GEF/DWA/ Birdlife Bots	Project: Value of protected areas of the Makgadikgadi Pans and optimal models for co-management and a financing strategy. Position & tasks. Project leader. Desktop assessment using existing data.
2010	South Africa	SANBI	Project: National Estuary Conservation Plan Position & tasks. Project leader. Collating quantitative

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			biodiversity data, setting targets, Marxan analysis, workshops and finalisation.
2009-10	South Africa	Dept of Water Affairs	Project: Quantification, mapping and valuation of aquatic ecosystem services of the Olifants, Inkomati and Usutu to Mhlatuze Water Management Areas. Position & tasks. Project leader. Ecological and social surveys, data analysis, GIS-based modelling of ecological and economic parameters, spatial extrapolation.
2009-10	Namibia	UNDP	Project: Climate change vulnerability assessment for Namibia's protected area system Position & tasks. Project leader. Responsible for overall direction and resource economics aspects, including survey of protected area users.
2009-10	Namibia	SPAN	Project: Valuation and financial plan for Namibia's protected area system. Position & tasks. Co-author. Responsible for updating the earlier valuation study and producing a comprehensive financial plan.
2009	Global	UNDP	Project: Financial mechanisms for adaptation of fisheries to climate change Position & tasks. Lead author of book chapter.
2009	South Africa, Mozambique, Swaziland	Conservation International	Project: Maputaland-Pondoland-Albany Hotspot Position & tasks. Preparation of a socio-economic assessment for the MPAH hotspot.
2009	South Africa	WRC	Project: Wetland Health and Integrity Programme Position & tasks. A protocol for quantification and valuation of wetland ecosystem services and for assessing the livelihood value of wetlands.
2008-9	South Africa	WWF-SA	Project: Ecology, value and management of the Kogelberg coast. Position & tasks. Project co-leader. Assessment of the economic value of the coast and implications of management changes on value, and overall editing of whole report.
2008-9	South Africa	UNDP	Project: National Capacity Self-Assessment – Biodiversity Position & tasks: Project leader. Assessment of SA's capacity to meet its commitments under the Biodiversity Convention, based on stakeholder meetings and workshops
2008	South Africa	South African National Biodiversity Institute	Project: Convention on Biodiversity: 4 th National Report Position & tasks: Project leader. Assessment of SA's progress in meeting its commitments under the Biodiversity Convention and assessment of the effectiveness of its strategies.
Dec 2006- Dec 2009	South Africa	Water Research Commission	Project: Wetland Health and Integrity Programme Position & tasks: Leader of Resource Economics component. Review of literature on biophysical and valuation aspects of wetland ecosystem services, undertaking valuation case studies for different types of services at different spatial scales, developing a protocol for assessment of value and socio-economic dependency
Dec	Zambia,	Worldfish	Project: Assessment of the social value of small-scale

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2006- Apr 2009	Malawi		fisheries. Position & tasks: Project leader for Southern Africa component. Responsible for Zambezi River Basin component of the study - analysis and write up, training workshops
Sep 2006- Feb 2007.	Namibia, Zambia	Conservation International	Project: Baseline socio-economic assessment and analysis of factors influencing household dependence on natural resources in the Kavango-Zambezi Transfrontier Conservation Area, and implications for conservation strategy. Position & tasks: Project leader. Survey design, analysis and write-up.
Apr 2006- Oct 2008	South Africa	Water Research Commission	Project: Development of an ecological-economic model of an estuary for use in management and water allocation decision-making. Position & tasks: Project leader. Socio-economic data collection and analysis, modelling workshops with physical and ecological specialists, completion of model, testing, write-up and manual.
Jun – Nov 2006	Lesotho	Government of Lesotho (through Southern Waters)	Project: Assessment of the loss of intangible value associated with rivers as a result of the Lesotho Highlands Development Project. Position & tasks: Technical team leader. Survey design, analysis and write up.
Dec 2005-8 - present.	Tanzania	IUCN - EARO	Project Environmental Flow Assessment of Pangani Basin, Tanzania. Position & tasks: Leader of Socio-Economics component. Development of a model for analysing the socio-economic aspects of the Environmental Flow Assessment. Collection and analysis of socio-economic data, development of spreadsheet model to estimate the change in aquatic ecosystem values associated with changes in environmental variables. Mentoring of Tanzanian specialists.
Oct 2005- Aug 2007.	South Africa	Cape Nature	Project: SA estuary biodiversity assessment and conservation planning. Position & tasks: Project leader. Development of a regional conservation plan for estuaries of the Cape based on conservation importance, ecosystem health and economic considerations; involved collation and analysis of biodiversity data, estimation of economic costs and benefits of conservation of each estuary, conservation planning using Marxan and GIS. Empirical data were collected for the study (ecological and economic).
Feb – Aug 2006	Botswana	IUCN – ROSA	Project: Valuation of the Okavango Delta, Botswana, responsible for direct use values and overall write-up. Position & tasks: Resource economist. Estimation of direct use values (Focus group and key informant discussions, household survey design, data analysis, tourism enterprise modelling), and write up of overall report including incorporation of sections contributed by other team members.
Apr 2004-	South Africa	Department of Water	Project: Development of the methodology for classification of water resources in South Africa, for use in

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Nov 2006.		Affairs and Forestry South Africa	water allocation decision-making. Position & tasks: Leader of Socio-Economics component. Development of a methodology for estimating aquatic ecosystem values and their relationships to ecosystem condition, and testing the approach on a pilot catchment. .
Dec 2004- Apr 2005.	South Africa	Dept of Environmental Affairs and Tourism, South Africa	Project: Economic assessment of the boat-based whale watching industry. Position & tasks: Project leader. Key informant interviews and collation and analysis of existing data, report write-up
Jul 2003- Jan 2005.	South Africa	Dept of Environmental Affairs and Tourism, South Africa	Project: Value of Knysna estuary Position & tasks: Project leader. Survey design and implementation, analysis and write-up
Aug 2004 – May 2005.	Namibia	UNDP	Project: Economic valuation and financing plan for Namibia’s protected area system Position & tasks: Project leader. Desktop study based on gathering and analysis of existing data
Aug – Dec 2004.	South Africa	Maluti-Drakensberg Transfrontier Conservation Project	Project: Development of a system of Payments for Ecosystem Services. Position & tasks: Resource economist. Description of service delivery and input into design of institutional arrangement for PES system.
Mar – Jun 2004.	South Africa	Dept of Environmental Affairs and Tourism	Project: Strategic Environmental Assessment of access to Off-road Vehicles in the coastal zone. Position & tasks: Resource economist. Help with design of the assessment criteria
Mar 2004.	Kenya, Uganda, Tanzania	IUCN-EARO	Project: ,Resource Economics research programme Position & tasks: Resource economist. Review of IUCN’s resource economics activities over the past 10 years and development of their future programme of activity in eastern Africa.
Oct – Dec 2003	Tanzania	IUCN - EARO	Project: Economic assessment of water allocation in the Pangani Basin, Tanzania. Position & tasks: Project leader. Survey design, Surveys of households and commercial enterprises throughout the basin, quantitative data analysis, analysis of policy and assessment of incentive options for water management. Management Experience: Management of entire project including a team of enumerators in the basin.
Oct 2003- Mar 2004.	South Africa	Dept of Water Affairs and Forestry	Project: EIA of displacement of trout by bass due to dam construction in the Natal Midlands, for Position & tasks: Resource economist. Surveys of trout industry and anglers.
Jan 2001- Dec 2003	South Africa	South African National Biodiversity Institute	Project: Conservation Farming Project. Position & tasks: Leader: Ecological-Economics Component. Responsible for advising ecological components and integrating these with economic components in a series of models to determine the ecological and economic consequences of alternative farming methods in four areas of South Africa.
Apr 2001-	South Africa	Water Research	Project: , Eastern Cape Estuaries Management Programme Position & tasks: Conservation biologist/economist.

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Mar 2003		Commission (through Institute of Natural Resources)	Estuarine Biodiversity Protection Strategy project: involving assessing threats to estuarine biodiversity and the state of estuarine health and protection in South Africa and devising a strategy for the estuarine biodiversity protection.
Apr 2001- Mar 2003	South Africa	Water Research Commission (through University of Port Elizabeth).	Project: Improving the biodiversity importance rating of South African estuaries Position & tasks: SubProject leader. Compilation of detailed database on South African estuaries, detailed study on invertebrate fauna of 16 estuaries, detailed study of birds of a section of the coast, analysis of invertebrate biogeographic patterns, computation of importance indices.
Jun 2001- Oct 2002	Namibia	Afridev Consultants	Project: Environmental Impact Assessment of proposed agricultural developments in the eastern Caprivi, Namibia. Position & tasks: Resource Economist. Responsible for a detailed baseline assessment of the use and value of natural resources to rural communities, and the impact of the loss of floodplain areas to agricultural developments on household livelihoods.
Jan – Dec 2001	South Africa	Water Research Commission	Project: Ecological-economic assessment of the upper Olifants River basin wetlands. Position & tasks: Resource Economist and overall editor. Involved advising a team of physical and ecological scientists in their research on wetland functioning and assessment of the different types of values of the hundreds of wetlands in the area, largely a desktop study.
Sep 2000 to Feb 2001	Tanzania	UCT	Project: Impact of Integrated Conservation and Development Projects on local attitudes and behaviour around Udzungwa Mountains National Park, Tanzania. Position & tasks: Project supervisor. Accompany student into field, assistance with survey design, analysis and write-up
Sep 2000 to Feb 2001	Tanzania	UCT	Project: Value of the Ngezi forest – the last forest remnant on Pemba Island, Tanzania. Position & tasks: Project supervisor. Accompany student into field, assistance with survey design, analysis and write-up
Aug – Sep 2000	Tanzania	IUCN - EARO	Project: Valuation of natural resources of the Rufiji floodplain and delta in Tanzania for Environmental Management Plan. Position & tasks: Project leader. design, field work and management of field team, analysis, writeup
Jan 1998- Dec 1999	Zambia, Malawi, Mozambique, Namibia	IUCN - ROSA	Project: Economic valuation of the Zambezi Basin wetlands. Position & tasks: Project leader. Assessing use and value of natural resources and the policy situation in four major wetlands (Barotseland, eastern Caprivi, lower Shire and Zambezi Delta)
Mar – Nov 1998	Swaziland	Afridev Consultants	Project: EIA for the Maguga Dam, Swaziland. Position & tasks: Resource economics component, involving survey of affected households and quantitative analysis of resource use and value

Working experience

2015 -: Director, Environmental Economics Policy Research Unit, University of Cape Town.

2011 to 2014: Deputy Director, Environmental Economics Policy Research Unit, University of Cape Town.

2009 to present: Contract lecturer for Percy FitzPatrick Institute Conservation Biology MSc Coursework module on Environmental Economics and Policy.

2003 to present: Director, Anchor Environmental Consultants.

2003- 2009 Senior Lecturer at the Percy FitzPatrick Institute of African Ornithology (PFIAO), UCT;

1997 to 2002: Lecturer at the PFIAO and Zoology Department, UCT;

Jan to Dec 1996: Senior Scientific Officer at the PFIAO; primary research projects on economic aspects of coastal tourism and waterfowl conservation in Africa.

March 1994 to Dec 1995: Scientific Officer at the PFIAO, primarily in the fields of conservation biology and resource economics, with particular reference to protected areas.

January-December 1989: Research assistant to Dr P.A.R. Hockey (PFIAO), on a variety of ornithological projects.

Tertiary Education and Qualifications

- **Resource Economics short courses** with University of Cape Town (1994), with Robert Costanza (1995), and with the Swedish Beijer Institute of Ecological Economics (1997, 1998, 1998, 2001).

- **PhD (Ornithology)** - University of Cape Town 1990-1994

Thesis title: Comparative foraging ecology of two broad-ranging migrants, Grey Plover *Pluvialis squatarola* and Whimbrel *Numenius phaeopus* (Aves: Charadrii), in tropical and temperate latitudes of the western Indian Ocean.

- **BSc Honours (Zoology)** - University of Cape Town 1986

- **BSc (Zoology)** - University of Cape Town 1983-1985; Class medal for Marine ecology

- **Matriculated 1982** (Collegiate School for Girls, Port Elizabeth); Class prize for Standards 6 to 10; honours blazer for academic achievement, matric Geography prize. Matric overall aggregate: A: English (A), Afrikaans (C), Mathematics (B), Physical Science (A), Biology (A), Geography (B)

Publications - Economics

TIBESIGWA, B., VISSER, M. & TURPIE, J. 2014. The impact of climate change on net revenue and food adequacy of subsistence farming households in South Africa. *Environment and Development Economics* **19**: 1-27.

TURPIE, J. & GOSS, J. 2014. Potential impacts of alternative regulatory interventions on the recreational value of angling on the Breede River estuary, South Africa. *African Journal of Marine Science* **36**: 399-408.

SOWMAN, M., SCOTT, D., GREEN, L., HARA, M., HAUCK, M., KIRSTEN, K., PATERSON, B., RAEMAEKERS, S., SCOTT, K., SUNDE, J. & TURPIE, J. 2013. Shallow waters: social science research in the marine environment. *African Journal of Marine Science* **35**:385-402.

LEWIS, S.E.F., TURPIE, J.K. & RYAN, P.G. 2012. Are African Penguins worth saving? The ecotourism value of the Boulders Beach colony. *African Journal of Marine Science*.

BIGGS, D. TURPIE, J., FABRICIUS, C. & SPENCELEY, A. 2011. The value of avitourism for conservation and job creation—an analysis from South Africa. *Conservation and Society* **9**: 80-90.

TURPIE, J.K. & LAMBERTH, S.J. 2010. Characteristics and value of the Thukela Banks crustacean and linefish fisheries, and the potential impacts of changes in river flow. *African Journal of Marine Science* **32**: 613–624.

DOLLAR, E. S. J., NICOLSON, C. R., BROWN, C. A., TURPIE, J. K., JOUBERT, A. R. TURTON, A. R., GROBLER, D. F., PIENAAR, H. H., EWART-SMITH J. AND MANYAKA, S. M. 2010. Development of the South African Water Resource Classification System (WRCS): a tool towards the sustainable, equitable and efficient use of water resources in a developing country. *Water Policy* **12**: 479–499.

NAPIER, V.R., TURPIE J.K. & CLARK B.M. 2009. Value and management of the subsistence fishery at Knysna Estuary, South Africa. *African Journal of Marine Science* **31**: 297–310.

- SCOVRONICK, N.C. & TURPIE, J.K. 2009. Is enhanced tourism a reasonable expectation for transboundary conservation? An evaluation of the Kgalagadi Transfrontier Park. *Environmental Conservation* 36: 149-156.
- LANNAS, K. S. M., & J. K. TURPIE. 2009. Valuing the provisioning services of wetlands: contrasting a rural wetland in Lesotho with a peri-urban wetland in South Africa. *Ecology and Society* 14(2): 18. [online] URL: <http://www.ecologyandsociety.org/vol14/iss2/art18/>
- TURPIE, J.K. 2008. Environmental and resource economics. Ch 2 in Environmental management in South Africa. Juta, Cape Town. (Book chapter)
- TURPIE, J.K. 2008. The valuation of riparian fisheries in southern and eastern Africa. Pp 107-146 in Neiland, A.E. and C. Béné (eds.) 2008. Tropical river fisheries valuation: background papers to a global synthesis. The WorldFish Center Studies and Reviews 1836, 290 pp. The WorldFish Center, Penang, Malaysia. (Book chapter)
- TURPIE, J.K., MARAIS, C. & BLIGNAUT, J. 2008. Evolution of a Payments for Ecosystem Services mechanism addressing both poverty and ecosystem service delivery in South Africa. *Ecological Economics* 65:788-798.
- TURPIE, J.K., O'CONNOR, T., MILLS, A. & ROBERTSON, H. 2007. The ecological and economic consequences of changing land use in the southern Drakensberg grasslands, South Africa. *Southern African Journal of Economic and Management Sciences* 10: 423- 443.
- DUGAN, P., SUGUNAN, V.V., WELCOMME, R.L., BENE, C., BRUMMETT, E., BEVERIDGE, M.C.M., ABBAN, K., AMARASINGHE, U., ARTHINGTON, A., BLIXT, M. CHIMATIRO, S., KATIHA, P., KING, J., KOLDING, J. KHOA, N. & TURPIE, J.K. 2007. Inland fisheries and aquaculture. Pp. 459-484 in Molden, D. (ed.) Water for food, water for life: a comprehensive assessment of water management in agriculture. Earthscan, London. (Book chapter)
- TURPIE, J.K. SIHLOPE, N., CARTER, A. MASWIME, T. & HOSKING, S. 2007 Maximising the socio-economic benefits of estuaries through integrated planning and management: a rationale and protocol for incorporating and enhancing estuary values in planning and management In: Water Research Commission. Profiling estuary management in integrated development planning in South Africa, with particular reference to the Eastern Cape Province. WRC Report No. 1485/1/07. (Published report)
- MILLS, A.J., TURPIE, J.K., COWLING, R.M., MARAIS, C., KERLEY, G.I.H., LECHMERE-OERTEL, R.G., SIGWELA, A.M. & POWELL, M. 2007. Assessing costs, benefits and feasibility of subtropical thicket restoration in the Eastern Cape, South Africa. p179-187. in Aaronson, J., Milton, S.J., Blignaut, J. & Raven, P. (eds.) Restoring natural capital: science, business and practice. Island Press. (Book chapter)
- BLIGNAUT, J.N., MARAIS, C., AND TURPIE, J. 2006. Determining a charge for the clearing of invasive alien plant species to augment water supply in South Africa. *Water SA*. 33:27-34.
- TURPIE, J.K. & JOUBERT, A.R. 2004. The value of flower tourism on the Bokkeveld Plateau, a botanical hotspot around Nieuwoudtville in the Northern Cape, South Africa. *Development Southern Africa* 21: 645-662.
- FAIRBANKS, D.H.K., HUGHES, C.J. & TURPIE, J.K. 2004. Potential impact of viticulture expansion on habitat types in the Cape Floristic Region, South Africa. *Biodiversity and Conservation* 13: 1075 – 1100.
- TURPIE, J.K. 2004. The role of resource economics in the control of invasive alien plants in South Africa. *South African Journal of Science* 100: 87-93.
- TURPIE, J.K., WINKLER, H. & MIDGLEY, G. 2004. Economic impacts of climate change in South Africa: a preliminary analysis of unmitigated damage costs. Pp. 130 – 160 in: Blignaut, J.N. & de Wit, M.P. *Sustainable Options*. UCT Press. (Book chapter)
- TURPIE, J.K. & BARNES, J.I. 2003. Balancing ecology and economics in the multiple use of wetlands on communal lands. Proceedings VIIth International Rangelands Congress, Durban, South Africa, 26 July – 1 August 2003. 1932-1941. (Conference proceedings)
- TURPIE, J.K. 2003. The existence value of biodiversity in South Africa: how interest, experience, knowledge, income and perceived level of threat influence local willingness to pay. *Ecological Economics* 46: 199-216
- LAMBERTH, S.J. & TURPIE, J.K. 2003. The role of estuaries in South African fisheries: economic importance and economic implications. *African Journal of Marine Science* 25: 131-157.
- TURPIE, J.K., HEYDENRYCH, B.J. & LAMBERTH, S.J. 2003. Economic value of terrestrial and marine biodiversity in the Cape Floristic Region: implications for defining effective and socially optimal conservation strategies. *Biological Conservation* 112: 233-251.

- PENCE, G.Q.K., TURPIE, J.K. & BOTHA, M.A. 2003. Evaluating combinations of on and off reserve conservation strategies for the Agulhas Plain, South Africa: a financial perspective. *Biological Conservation* **112**: 253-273.
- FRAZEE, S.R., COWLING, R.M., PRESSEY, R.L., TURPIE, J.K. & LINDENBERG, N. 2003 Estimating the costs of conserving a biodiversity hotspot: a case study of the Cape Floristic Region, South Africa. *Biological Conservation* **112**: 275-290.
- TURPIE, J.K. 2003. The economics of protected areas in South Africa. *African Wildlife* **57** (3): 34-37. (Popular article)
- RYAN, P.G. & TURPIE, J.K. 1995. Putting a price tag on rarity. *Birding in Southern Africa* **47** (3): 92-93. (Popular article)
- HUTCHINGS, K., LAMBERTH, S.J. & TURPIE, J.K. 2002. Socio-economic characteristics of gill and beach-seine fishers in the Western Cape, South Africa. *S.A. Journal of Marine Science* **24**: 243-262.
- HOGAN, R., TURPIE, J.K., MBIHA, E.R., SENKONDO, E.M.M., HAMERLYNCK, O. 2002. Socio-economic aspects of natural resource use in the Rufiji delta. Proceedings of the Second WIOMSA Symposium 22-26 October, Dar es Salaam, Tanzania. (Conference proceedings)
- TURPIE, J.K. & VAN ZYL, H. 2002. Valuing the environment in water resources management. Pp 85-110, in: Hirji, R., Johnson, P., Maro, P. & Matiza Chiuta, T. (eds) *Defining and mainstreaming environmental sustainability in water resources management in southern Africa*. SADC, IUCN, SARDC, World Bank: Maseru/Harare/Washington DC. (Book chapter)
- TURPIE, J.K. & HEYDENRYCH, B.H. 2002. Fynbos: a preliminary assessment of its status and economic value. Pp 73-116 in: Hassan, R.M. (Ed). *Accounting for stock and flow values of woody land resources: methods and results from South Africa*. CEEPA, University of Pretoria, Pretoria. (Book chapter)
- TURPIE, J.K. & HEYDENRYCH, B.H. 2000. Economic consequences of alien infestation of the Cape Floral Kingdom's Fynbos vegetation. pp 152-182 in Perrings, C., Williamson, M. & Dalmazzone, S. (eds) *The economics of biological invasions*. Cheltenham, U.K.: Edward Elgar. pp. 214-261. (Book chapter)
- MILLENNIUM ECOSYSTEM ASSESSMENT. 2003. *Ecosystems and human well-being: A Framework for assessment*. Island Press, London. (too many authors to list). (Book)
- PALMER, R.W., TURPIE, J., MARNEWICK, G.C. & BATCHELOR, A.L. 2002. Ecological and economic evaluation of wetlands in the upper Olifants River catchment, South Africa. WRC Report No. 1162/1/02. (Published report)
- MOGAKA, H., SIMONS, G., TURPIE, J., EMERTON, L. & KARANJA, F. 2001. *Economic aspects of community involvement in sustainable forest management in eastern and southern Africa*. IUCN-EARO, Nairobi. (Book)
- TURPIE, J.K. & JOUBERT, A. 2001. The tourism value of rivers in Kruger National Park and impacts of a change in river quality. *Water SA* **27**: 387-398.
- BALLANCE, A., RYAN, P.G. & TURPIE, J.K. 2000. How much is a clean beach worth? The impact of litter on beach users in the Cape Peninsula, South Africa. *South African Journal of Science* **96**: 210-213.
- GRUNDY, I., TURPIE, J.K., JAGGER, P., WITKOWSKI, E., GUAMBE, I., SEMWAYO, D. & SOLOMON, A. 2000. Implications of co-management for benefits from natural resources for rural households in north-western Zimbabwe. *Ecological Economics* **33**: 369-381.
- TURPIE, J.K. & RYAN, P.G. 1999. What are birders worth? The value of birding in South Africa. *Africa: birds & birding* **4**: 64-68. (Popular article)
- HIGGINS, S.I., TURPIE, J.K., COSTANZA, R., COWLING, R.M., LE MAITRE, D.C., MARAIS, C. & MIDGLEY, G. 1997. An ecological economic simulation model of mountain fynbos ecosystems: dynamics, valuation and management. *Ecological Economics* **22**: 155-169.
- TURPIE, J.K. & SIEGFRIED, W.R. 1996. The conservation - economic imperative: securing the future of protected areas in South Africa. *Africa: environment and wildlife* **4** (3): 35-37. (Popular article)
- TURPIE, J.K. 1994. The billion dollar bird. *S.A. Commercial Marine* **3** (4): 23,30. (Popular article)

Publications – Ecology and conservation

- PITTOCK, J., FINLAYSON, M., ARTHINGTON, A. H., ROUX, D., MATTHEWS, J. H., BIGGS, H., HARRISON, I., BLUM, E., FLITCROFT, R., FROEND, R., HERMOSO, V., JUNK, W., KUMAR, R., LINKE, S., NEL, J., NUNES DA CUNHA, C., PATTHAIK, A., POLLARD, S., RAST, W., THIEME, M., TURAK, E., TURPIE, J., VAN NIEKERK, L., WILLEMS, D.

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- BARKER, N., FORSYTHE, K., CLARK, V.R., RAMATLA, S., KHEEKHE, M., DOLD, A., KOBISI, K., NORMAN, Y. & TURPIE, J.K. 2014. Flora of the Mohale Dam catchment. Specialist report for Contract 1273: Biological Resources Monitoring within Phase 1 of the LHWP Catchments 2013-14. Report no.

- AEC/14/12 submitted by Anchor Environmental Consultants to the Lesotho Highlands Development Authority.
- TURPIE, J., FORSYTHE, K, BENN, G., & THOMSON, M. 2014. Katse Dam catchment land cover change analysis 1991-2013. Specialist report for Contract 1273: Biological Resources Monitoring within Phase 1 of the LHWP Catchments 2013-14. Report no. AEC/14/12 submitted by Anchor Environmental Consultants to the Lesotho Highlands Development Authority
- TURPIE, J., FORSYTHE, K., BENN, G. & THOMSON, M. 2014. Mohale Dam catchment land cover change analysis 1991-2013. Specialist report for Contract 1273: Biological Resources Monitoring within Phase 1 of the LHWP Catchments 2013-14. Report no. AEC/14/12 submitted by Anchor Environmental Consultants to the Lesotho Highlands Development Authority
- TURPIE, J., BARKER, N., CLARK, B., DIEDERICKS, G., MARNEWECK, G., ALLAN, D. HARVEY, J., AVENANT, N & FORSYTHE, K. 2014. State of the Katse Dam catchment. Synthesis report for Contract 1273: Biological Resources Monitoring within Phase 1 of the LHWP Catchments 2013-14. Report no. AEC/14/12 submitted by Anchor Environmental Consultants to the Lesotho Highlands Development Authority.
- TURPIE, J., BARKER, N., CLARK, B., DIEDERICKS, G., MARNEWECK, G., ALLAN, D. HARVEY, J., AVENANT, N & FORSYTHE, K. 2014. State of the Mohale Dam catchment. Synthesis report for Contract 1273: Biological Resources Monitoring within Phase 1 of the LHWP Catchments 2013-14. Report no. AEC/14/12 submitted by Anchor Environmental Consultants to the Lesotho Highlands Development Authority
- TURPIE, JK, TALJAARD, S., ADAMS, J., VAN NIEKERK, L., FORBES, N., WESTON, B. HUIZINGA, P., WHITFIELD, A. 2012. Methods for the determination of the Ecological Reserve for estuaries. Version 3. Water Research Commission and Department of Water Affairs, Pretoria. WRC Report No. 1930/2/12.
- TURPIE, J.K., TALJAARD, S., VAN NIEKERK, L., ADAMS, J., WOOLDRIDGE, T., CYRUS, D., CLARK, B. & FORBES, N. 2012. The Estuary Health Index: a standardised metric for use in estuary management and the determination of ecological water requirements. WRC Report No. 1930/1/12
- B.M. CLARK, J.K. TURPIE, S. MALLORY, L. VAN NIEKERK, S. TALJAARD, J.B. ADAMS AND A. BICCARD. 2012. Determination of the ecological reserve for the Uilkraals estuary. Anchor Environmental Report to Cape Nature.
- TURPIE, J.K., PORTER, S. & SIMMONS, R. 2012. Preconstruction avifaunal monitoring report for the development of the Witberg Wind Energy Facility. Report by Anchor Environmental Consultants to G7 Renewable Energies.
- TURPIE, J.K., PORTER, S. & SIMMONS, R. 2012. Preconstruction avifaunal monitoring report for the development of the Klawer Wind Energy Facility. Report by Anchor Environmental Consultants to G7 Renewable Energies.
- VAN NIEKERK, L. & TURPIE, J.K. (EDS) 2012. National Biodiversity Assessment for South African Estuaries. Report to South African National Biodiversity Institute.
- TURPIE, J.K., WILSON, G. & VAN NIEKERK, L. 2011. Biodiversity plan for South African Estuaries. Report to South African National Biodiversity Institute.
- CLARK, B.M., TURPIE, J.K., HUTCHINGS, K., ORR, K.K. & DE WET, J. 2009. Ecology, value and management of the Kogelberg coast. Report by Anchor Environmental Consultants to World Wide Fund for Nature – South Africa. 157 pp.
- TURPIE, J.K. & CLARK, B.M. 2007. The health status, conservation importance, and economic value of temperate South African estuaries and development of a regional conservation plan. Report to CapeNature.
- DOLLAR, E.S.J., BROWN, C.A., TURPIE, J.K., JOUBERT, A.R., NICOLSON, C.R. AND MANYAKA, S. 2006: The development of the Water Resource Classification System (WRCS). Volume 1. Overview and 7-step classification procedure. CSIR Report No., Department of Water Affairs and Forestry, Pretoria, 70pp
- TURPIE, J.K. 2005. *Priority estuaries for conservation on the Wild Coast, South Africa*. Report to CSIR for the Wild Coast Conservation and Sustainable Development Project. 14pp.
- TURPIE, J.K. 2005. *Birds of the Kromme River estuary*. Report to CES for the Kromme-Seekoei RDM Study.
- TURPIE, J.K. 2004. *South African Spatial Biodiversity Assessment, Technical Report Vol 3: Estuary component*. DEAT: SANBI.

- TURPIE, J.K., FOX, C., TAYLOR, R. & CYRUS, D. 2004. *Birds of St Lucia estuary and impacts of a change in freshwater inputs*. Report to CSIR Environmentek.
- TURPIE, J.K. 2004. Current status of estuaries, their protection and threats to their biodiversity, proposed goals for conservation and guidelines for a strategy for the protection of estuarine biodiversity. In: Breen, C.M., Adams, J., Batchelor, A., Cowley, P., Marneweck, G., McGwynne, McKenzie, M., Bgulube, P., Paterson, A., Sihlophe, N., Taljaard, S., Turpie, J., Uys, A.C., van Niekerk, L., Wood, A., Lamberth, S., Boyd, A. & Morant, P. *Protocols contributing to the management of estuaries in South Africa, with a particular emphasis on the Eastern Cape Province. Vol. II. Eastern Cape Estuaries Management Research Programme*. WRC Report No. 1246/1/04.
- TURPIE, J.K. 2004. *Birds of the Berg River estuary*. Initialisation report for the Berg River monitoring programme. Report to DWAF.
- TURPIE, J.K., CLARK, B., KNOX, D., MARTIN, P., PEMBERTON, C. & SAVY, C. 2004. *Improving the biodiversity rating of South African estuaries*. Vol 1. Contributions to information requirements for the implementation of resource directed Measures for estuaries. WRC Report no. 1247/1/04. 121pp.
- TALJAARD, S., ADAMS, J. & TURPIE, J.K. 2003. *Methodology for the determination of the preliminary ecological reserve for estuaries*. Department of Water Affairs and Forestry, Republic of South Africa.
- TURPIE, J.K. 2003. *Goals and guidelines for a strategy for the protection of biodiversity in Eastern Cape estuaries*. Biodiversity protection subproject of the Eastern Cape Estuaries Management Programme, Report 3, Institute of Natural Resources.
- TALJAARD, S, ADAMS, J B, TURPIE, J K, VAN NIEKERK, L, BATE, G, CYRUS, D, HUIZINGA, P, LAMBERTH, S, WESTON, B. 2003. *Methodology for the Determination of the Preliminary Ecological Reserve for Estuaries*. Version 2. Department of Water Affairs and Forestry, Pretoria.
- CLARK, B., TURPIE, J.K. & NGESI, K. 2003. *Review of international strategies for conservation of estuarine biodiversity*. Biodiversity protection subproject of the Eastern Cape Estuaries Management Programme, Report 2, Submitted to Institute of Natural Resources.
- TURPIE, J.K. 2003. *The current state of protection and health of estuarine biodiversity in South Africa, with emphasis on Eastern Cape estuaries*. Biodiversity protection subproject of the Eastern Cape Estuaries Management Programme, Report 1, Submitted to Institute of Natural Resources.
- TURPIE, J.K. 2002. *The birds of the Transkei Coast*. Unpublished report to Water Research Commission.
- TURPIE, J.K. 2002. *The birds of Wildevoelvllei: an analysis of 16 years of monthly count data*. Unpublished report, Southern Waters. Report to City of Cape Town.
- TURPIE, J.K. 2002. *Avifaunal assessment of Lake Michelle Wetland, Noordhoek*. Unpublished report, Southern Waters. Report to City of Cape Town.
- TURPIE, J.K. 2001. *Breede River Estuary EFR/RDM study – specialist report on Avifauna*. Report to CSIR, Environmentek.
- TURPIE, J.K. & LLOYD, P. 2001. *Dynamics and ecological importance of the southern Noordhoek Beach lagoon, with reference to management of Wildevoelvllei*. Unpublished report, Southern Waters. Report to City of Cape Town.
- TURPIE, J.K. 2000. *Classification and prioritisation of South African estuaries on the basis of health and conservation priority status for determination of the estuarine water reserve*. Report to DWAF.
- TURPIE, J.K. & LOVE, V.C. 2000. *Avifauna and human disturbance on and around Thesen Island, Knysna estuary: implications for the island's marina development and management plan*. Report to Chris Mulder & Associates.
- TURPIE, J.K. 1999. *Assessing estuarine integrity and conservation priority status in South Africa: a prerequisite for planning decisions*. Report to DWAF and WRC, 38pp.
- TURPIE, J.K. 1999. *Diep river management plan: avifauna*. Report to Ninham Shand.
- TURPIE, J.K & WILLIAMS, A.J. 1999. *Thesen Island Environmental Management Plan: specialist input on avifaunal aspects*. Report to the CSIR Environmentek, 12pp.
- TURPIE, J.K. 1999. *Comment on the effect of the proposed diversion of water flow into the Westlake wetlands on avifauna*. Report to Southern Waters, 6pp.
- TURPIE, J.K. 1999. *Birds of the lower Hopies River, Hawston*. Report to Southern Waters, 6pp.

- TURPIE, J.K. 1998. *A preliminary assessment of the Monwabisi coastal dune area as a bird habitat*. Report to MCA Urban and Environmental Planners, 5pp.
- TURPIE, J.K. 1998. *Commercialisation of Milnerton Tankfarm: impacts of proposed pipeline routings on avifauna*. Report to COASTEC, 4pp.
- TURPIE, J.K. 1998. *Proposed development of a visitor centre at Rietvlei: impacts on avifauna*. Report to the CSIR, 19pp.
- TURPIE, J.K. & COHEN, C. 1998. *Proposed rezoning of Kenilworth Racecourse: avifaunal study*. Report to Doug Jeffery, 16pp.
- TURPIE, J.K. 1998. *Potential impacts of altered river flows on the birds of the Palmiet River estuary*. Report to the CSIR, 10pp.
- TURPIE, J.K. & MARTIN, A.P. 1998. *Birds of the Swartkops estuary: past and present*. Report to the CSIR.
- TURPIE, J.K. 1997. *Potential impacts of proposed dam and irrigation schemes on the birds of the Olifants River estuary: a preliminary desktop study*. Report to CSIR, 14pp.
- TURPIE, J.K. 1996. *Potential impacts of the proposed Caledon casino development on avifauna and recommendations for optimising bird habitat along the Baths River*. Report to Planning Partnership, 8pp.
- TURPIE, J.K. 1996. *Habitat preferences of waterbirds in the southwestern Cape, with particular reference to man-made wetlands and birds of conservation importance on the Cape Flats*. Unpublished report to Southern Waters, 15pp.
- TURPIE, J.K. 1996. *An assessment of alternative locations on the West Coast for Eskom's proposed Omega substation in terms of the potential impacts on bird populations*. Unpublished report to Ninham Shand.
- TURPIE, J.K. 1996. *Guidelines for the creation of bird habitats within Century City's main water feature at Blouvillei*. Unpublished report to CSIR, 4pp.
- TURPIE, J.K. 1996. *Specialist study of the avifauna of Blouvillei*. Unpublished report to CSIR, 20pp.
- TURPIE, J.K. 1995. *Thesen Island Environmental Impact Study: Specialist report on the avifauna*. Unpublished report to CSIR, 31pp.
- TURPIE, J.K. 1995. *Preliminary ornithological assessment of the Dreyersdal wetlands, erf 4161 Constantia*. Unpublished report to Ninham Shand, 8 pp.
- TURPIE, J.K. 1995. *Tableview Mall extension ecological report: impact of the proposed access road on wetland avifauna*. Unpublished report to Ninham Shand, 13 pp.
- TURPIE, J.K. & BROOKE, R.K. 1994. *Trends in the publication record of the Percy FitzPatrick Institute of African Ornithology, 1960 - 1993*. Unpublished report, 10pp.
- TURPIE, J.K. 1994. *A methodology for prioritizing South African estuaries for conservation*. Unpublished report to Quin Olën & Associates, 27pp.
- TURPIE, J.K. 1994. *The biological value of the lower reaches of the Black River and adjacent wetlands, and consequent management imperatives*. Unpublished report to the Cape Town City Planner's Department, 36pp.
- BROWN, C., JENKINS, A. & TURPIE, J.K. 1993. *Environmental survey to determine priority areas for conservation, community use and development in the west coast urban structure plan*. Unpublished report to the Botanical Society of South Africa, 28pp.

Teaching

- 2012 Taught part of a 2-week resource economics course in Kasese, Uganda, June.
- 2012 Taught part of a 3 week course on the economics of climate change at the University of Cape Town.
- 1995 to present Intensive one-month lecture module in Environmental and Resource Economics to MSc Conservation Biology students, including project work on River flow into Kruger National Park, value of biodiversity attributes to ecotourism in Hluhluwe Game Reserve, enterprise development for financial self-sufficiency in De Hoop Nature Reserve, costs and benefits of establishment of the proposed Agulhas Plain National Park, development of the Cape Peninsula National Park, and ecological-economic modelling of the Barotse Floodplain, Zambia.
- 2004 Resource economics module for Applied Marine Science MSc course.
- 2004-8 Resource economics lectures for Applied Ecology 2nd year course.

- 1998 - 2001 Co-leader of a three-week Zoology III field course in Behavioural Ecology at De Hoop Nature Reserve.
- 1997-9 Lectured a three-week course in Conservation Biology to second year Zoology students.
- 1995-9 Led discussion groups on conservation biology topics to 2nd Year Zoology and Zoology Honours classes respectively
- 1996 Lectured Environmental Economics to Cape Technikon 4th year Nature Conservation students.
- 1995-8 Group leader and/or project leader on the Zoology II field camp at Langebaan.
- 1984-6 Demonstrated Zoology I, II & III Practicals
- 1988 Taught English privately and at Novalingua Language Academy, Barcelona, Spain.

Student supervision

- 2012- Louise Palframan (MSc) Incorporating economic efficiency into systematic conservation planning.
- 2011-12 Darlington Tuagben (MSc) Socio-economic implications for increased risk of oil spills off the Liberian coast.
- 2010-11 Kate England (MSc) Conservation and socio-economic tradeoffs in the tourism management of the Sabaki estuary, Kenya.
- 2010-11 Sarah Lewis (MSc) The value of the Boulders penguin colony.
- 2009-10 Ian Kissoon (MSc) Using Guyana's tropical forests to combat global climate change without compromising local livelihoods.
- 2007-8 Anja Teroerde (MSc). Effects of mouth condition on birds of temporarily open-closed estuaries.
- 2006-9 Peter Ngoma (PhD). Social value of small-scale fisheries in the Zambezi River Basin.
- 2006-7 Helen Gordon (MSc). Factors influencing household dependence on natural resources in a Transfrontier Conservation Area, and implications for conservation strategy.
- 2005-6 Hugo van Zyl (PhD). Property Price Approaches to the Valuation of Urban Wetlands: Theoretical Considerations and Policy Implications.
- 2005-6 Noah Scovronick (MSc) Economic Claims for Transboundary Conservation: Reality or Rhetoric? A Case Study of the Kgalagadi Transfrontier Park
- 2005-6 Takalani Masizwe (MSc) The opportunity costs of conserving estuaries in the CAPE planning region: a study of property values
- 2005-6 Duan Biggs (MSc). What makes community-based avitoursim fly? An institutional perspective
- .2004-5 Philip Osano (MSc): Estimating the opportunity costs of biodiversity conservation in the Western Cape, South Africa.
- 2004-5 Victoria Napier (MSc): Valuation and management of the subsistence fishery on the Knysna estuary, South Africa.
- 2003-6 Ruth Parker (MSc). *Incentives for conservation of Renosterveld on private farm land.*
- 2002-3: Hilary Anderson (MSc): *Econometric analysis of the wildlife market in South Africa.*
- 2002-3. David Knox (Msc): *Assessing the conservation importance of estuarine intertidal invertebrate communities: a case study of warm temperate estuaries in South Africa.*
- 2001-2: Cath Hughes (MSc): *The potential impact of viticulture expansion on biodiversity in the Cape Floristic Region.*
 Rowena Smuts (MSc): *Rural resource use on Pemba, Tanzania.*
 Emily Kisamo (MSc): *The impacts of community conservation initiatives in Tanzania: a case study of villages around Udzungwa Mountains National Park.*
 Benis Eogh (MSc): *A spatial analysis of natural resource use in rural eastern Caprivi.*
 Simiao Mahumana (MSc): *Rural attitudes towards conservation in Mozambique.*
- 2000-1 Gen Pence (MSc): *From conservation planning to implementation: what lies between. A case study of for the Agulhas region.*
 Sarah Frazee (MSc) *Estimating the costs of conserving a biodiversity hotspot: a case study of the Cape Floristic Region, South Africa.*
- 1999-0 Lyndon Estes (MSc): *An investigation of the role of cost-distance in determining the pattern of human impact on Arthrixia elata in and around Songimvelo Nature Reserve, Mpumalanga Province, South Africa.*

- Adnan Awad (MSc): *conservation of marine invertebrates in South Africa*
- Verna Love (MSc): *Human disturbance of waterbirds at the Knysna estuary, South Africa.*
- 1999 Jo Boule (BSc Honours): *Responses of birds to the invasion of Zostera on the Swartkops estuary*
- Carryn Manicom (BSc Honours): *Responses of invertebrates to the invasion of Zostera on the Swartkops estuary.*
- 1998-9 Anastelle Solomon (MSc): *The use and value of natural firewood resources in Paulshoek, Namaqualand, and the ecological impacts on rangeland dynamics.*
- 1997-9 Barry Heydenrych (MSc): *An investigation of land-use practices on the Agulhas Plain (South Africa), with emphasis on socio-economic and conservation issues.*
- 1998 Kari Gunson (MSc) *The economic value and sustainability of plant resource use in the eastern Caprivi-Chobe wetlands.*
- Richard Allcorn (MSc): *The economic value and sustainability of fisheries in the eastern Caprivi-Chobe wetlands.*
- 1997 Jennifer A. D'Amico (MSc): *Evaluating protected area expenditure: a case study in KwaZulu-Natal, South Africa.*
- 1996 Co-supervisor of two Zoology Honours students on prioritising conservation areas for migratory waterfowl, using life-history characteristics and on reserve selection methods.
- 1996 Co-supervisor of one Economics Honours student, on calculating multipliers from tourism expenditure in a coastal resort town.
- 1995-6 Stephen Katua (MSc): *Biogeography and priority areas for conservation of South Africa's coastal shelf ichthyofauna.*
- Charlotte Morgan (MSc): *The Boulders Park African Penguin colony: a valuable ecotourism resource.*
- Anna Balance (MSc): *Recreational use value of the Cape Peninsula's beaches, with special reference to pollution control.*

Conferences, Workshops, Meetings & Presentations

- 2013 Invited presentation. "The role of economics and ecosystem valuation in conservation". CapeNature Annual Conference. 6-7 November 2013.
- 2013 Invited presentation: "Interdisciplinary research needs for ecosystem services – a southern African perspective". Beijer-EfD international workshop on integrating ecological and economics research, Monkey Valley, Cape Town.
- 2011 MPA Forum presentation. ".Potential impact of the proposed Addo Marine Protected Area on commercial fisheries", Marine Protected Area Forum, Kei Mouth, November 2012
- 2011 Conference paper. ".The value of marine protected areas along the Garden Route Coast, and implications of changes in levels of protection", EAERE, Rome June/July 2011
- 2011 Conference paper. "Value of the Kogelberg coast and implications of changes in management", South African Marine Science Symposium, Grahamstown April 2011
- 2011 Invited paper. "Conservation of estuaries as the marine-freshwater interface: the importance of an integrated and strategic approach, Society for Conservation Biology – International Marine Conservation Congress, Victoria, Canada May 2011
- 2009 Conference paper. "The nature, value and distribution of ecosystem services in South Africa" *Biodiversity Planning Form*, Pumula, Kwazulu-Natal Mar 2009.
- 2009 Conference paper. "Estimating the social and economic trade-offs in allocating environmental flows for the Pangani River Basin, Tanzania" *International EWA*, Port Elizabeth, Feb 2009.
- 2008 Conference paper: Integrating economics into conservation planning: a case study of temperate South African estuaries. *SANBI Biodiversity Symposium*, Mpekwani, March 2008.
- 2007 Conference paper: Integrating socio-economics and ecology in determining environmental flows. 10th International *Riversymposium* & Environmental Flows Conference, Brisbane 3 – 6 September 2007.
- 2005 Invited participant: Symposium on "Strategies for Restoring Natural Capital". 30 Oct – 2 Nov 05.
- 2004 Keynote speaker: Fynbos Forum, August 2004 "The potential role of economic tools in the conservation of the Cape Floristic Region".

- 2004 Invited speaker: Thicket Forum, April 2004: *"An ecological-economic analysis of the conversion to game farming in the Xeric Succulent Thicket"*
- 2004 Invited speaker: WorldFish Centre's Zambezi Basin Fisheries Workshop, Livingstone, Zambia, May 2004: *"Value of floodplain fisheries in the Zambezi Basin"*.
- 2004 Invited participant: IUCN's Water and Nature Initiative, to give a course on valuation methods to global IUCNs resource economists, and develop a direction for incorporating economics into integrated river basin management; Moshi, Tanzania, March 2004.
- 2003 Conference paper: *"Balancing ecology and economics in the multiple use of wetlands on communal lands"* International Rangelands Conference, Durban
- 2003 Keynote speaker: Working for Water's inaugural conference, Kirstenbosch July 2003: *"The role of resource economics in the control of alien invasive plants"*.
- 2002 Invited participant: Millenium Ecosystem Assessment: First meeting of the working group on ecosystem condition and trends. Rome 27-30 April 2002.
- 2002 Invited participant: Millenium Ecosystem Assessment: First meeting on the development of the conceptual framework. Paris 13-17 March 2002.
- 2001 Invited workshop participant: Beijer Institute workshop on Mangrove valuation. Malaysia, March 2001.
- 2001 Conference paper: *"Socio-economic aspects of natural resource use in the Rufiji delta"*. Second WIOMSA Symposium 22-26 Oct, Dar es Salaam, Tanzania.
- 2000 Invited presentation: *"Placing economic value on our natural resources"*. Experimental Biology Group Symposium, Sep 2000.
- 2000 Invited presentation: *"The role of resource economics in promoting wise and optimal use of natural systems in rural Africa"*. 29 Sep, Maputo, Mozambique.
- 2000 Lecturer at training workshop: *Community Involvement in Forest Management*, Kampala, Uganda, July 2000.
- 2000 Invited workshop participant: *Regional Biodiversity Forum: Using biodiversity to strengthen livelihoods in Eastern and Southern Africa*. 21-23 Feb 2000, Mombasa, Kenya.
- 2000 Member of project team: *Cape Action Plan for the Environment: Strategic Planning Workshop*, February 2000.
- 2000 Invited presentation: *Conservation and management of South Africa estuaries: conservation prioritisation and the new Water Act*. Environmental & Geographical Science Dept, UCT.
- 2000 Invited presentation: Conservation of estuarine biodiversity. *National Estuaries Workshop*, Port Elizabeth, May 2000.
- 1999 Invited workshop presentation: *The economic rationale for environmental management pertaining to water resources in the SADC region*. Harare, November 24-26.
- 1999 Invited speaker at GISP workshop co-ordinated by Prof. Charles Perrings on the economics of alien invasives, York, England, March 1999. Presentation: *"The economic consequences of alien invasion of the Cape Floral Kingdom's Fynbos vegetation."*
- 1999 Departmental presentation: *Water, wetlands & wealth: Blending ecology and economics to achieve the optimal sustainable use of aquatic resources*. Zoology Dept, UCT.
- 1999 Invited workshop participant: *Development of a methodology to determine the minimum water requirements of estuaries*, University of Port Elizabeth, Feb 1999.
- 1998 Selected participant in the Beijer Course on "Advanced methods in Economic valuation of Environmental Resources" at CATIE, Turrialba, Costa Rica, 23 Nov - 4 Dec.
- 1998 Invited as a trainee to the Beijer Research Seminar, River Club, Zambia, under Ken Arrow, Partha Dasgupta, Charles Perrings, Karl-Goran Maler, Jeff Vincent and Sara Anijar. Presentations: *"A preliminary assessment of fynbos stocks, yields and values in the Western Cape"* and a critique on a paper on the causes of deforestation in Malawi..
- 1998 *African Fisheries Congress, Grahamstown August 1998*. Presentation: *"Biogeography and the selection of priority areas for the conservation of South African coastal fishes"* (presented by LE Beckley).
- 1998 Piggs Peak, Swaziland. Maguga Dam EIA Presentation of Resource Economics study to government and royal family.
- 1997 Elected member of the Fynbos Forum committee.
- 1997 *Fynbos Forum, Genadendal*. - "National accounting: can Fynbos be valued?"

- 1997 Invited to attend: *The Beijer Institute of Ecological Economics' Teaching Workshop in Environmental Economics, Simonstown, 6 - 17 January 1997.* (An international training workshop for lecturers in environmental economics.)
- 1996 *PFIAO AGM, UCT.*- "Estimating the value of coastal resources."
- 1996 *6th International Behavioural Ecology Conference, Canberra, Australia 29 Sep - 4 Oct 1996* – Presentation: "Aggressive behaviour among foraging shorebirds: conscious decisions and random collisions".
- 1996 Invited presentation to Cape Nature Conservation, Head Office, Cape Town: *A preliminary economic assessment of De Hoop Nature Reserve.*
- 1996 Invited to attend the IUCN southern Africa workshop on *Economics, Policy and Natural Resource Management*, Pretoria 11-13 September.
- 1996 Invited presentation to Cape Nature Conservation, Overberg District: *A preliminary economic assessment of De Hoop Nature Reserve.*
- 1996 Invited to attend and compile the proceedings for a workshop entitled: *The creation of conditions and incentives that support the conservation and sustainable use of biological diversity*; organised by Rachel Wynberg, LAPC and DEAT as a contribution towards the formulation of a Biodiversity Policy and Strategy for South Africa.
- 1996 Co-organiser of the *Southern African Wildlife Management Symposium on Sustainable Use of Wildlife*, 9-11 April 1996.
- 1996 Invited presentation at *National Parks Board Bi-annual Warden's Meeting, Golden Gate National Park.* "Environmental economics and the value of natural resources"
- 1998 *International Ornithological Congress, Durban, Aug 1996.* Presentations: "Waders and their estuarine food supplies: are predatory impacts or predator behaviour the key to understanding carrying capacity? (presented by PAR Hockey); "The value of birding in South Africa" (with PG Ryan).
- 1996 *Southern Hemisphere Ornithological Conference, Albany Australia 5 - 9 Oct 1996* – Presentation: "Adaptive variation in the foraging behaviour of shorebirds at tropical and temperate latitudes".
- 1996 Invited presentation to Zeekoeivlei Civic Association workshop on the proposed False Bay Coastal Park: *The importance of Strandfontein Sewage Works as a bird habitat in a local, national and international context.*
- 1996 *Zoology Department, University of Stellenbosch.* Invited guest seminar: "Long flight to paradise? Foraging ecology of Grey Plovers on tropical and south temperate estuaries"
- 1996 *Meeting of the ethology group of the ZSSA, West Coast National Park.*
- 1995 *PFIAO AGM, UCT.*- "Environmental economics research at the PFIAO"
- 1995 *The sustainable use of the lowlands in the Western Cape: one day workshop.* Environmental economics working group.
- 1995 Helped organise and participated in the two-week *Ecological Economics workshop: "Valuation and management of fynbos ecosystems of the Cape Floristic Region, South Africa"*, UCT, led by Professors R. Costanza and R Cowling.
- 1995 *Natal Parks Board Annual Research Symposium, Pietermaritzburg.*
- 1995 *Zoology departmental seminar, UCT.* - "Long flight to paradise? Foraging ecology of Grey Plovers on tropical and south temperate estuaries"
- 1994 *Zoological Society of Southern Africa Symposium, Pietermaritzburg.* - "Prioritizing South African estuaries for conservation: a practical example using waterbirds"
- 1994 *PFIAO AGM, UCT.* - "Conservation economics"
- 1993 *PFIAO AGM, UCT.* - "Foraging ecology of Grey Plovers and Whimbrels in tropical and south temperate latitudes"
- 1993 *8th Thematic Symposium of the Southern African Ornithological Society: Migration, dispersal and nomadism, Langebaan.* – Presentation: "Ecological correlates of migration distance in Grey Plovers and Whimbrels"
- 1992 *9th International Waterfowl Ecology Symposium (IWRB), Hajduszoboszlo, Hungary.* - Presentation: "Comparative diurnal and nocturnal foraging behaviour and energy intake of Grey Plovers and Whimbrels"
- 1992 *Wader Study Group Annual Conference, Hajduszoboszlo, Hungary.* - Presentation: "Nonbreeding territoriality among Grey Plovers at the Zwartkops estuary, South Africa"

- 1992 *PFIAO AGM, UCT.* - "Comparative foraging ecology of migrant waders on temperate and tropical estuaries"
- 1992 *Cape Bird Club, Cape Town.* - "Bird Migration"
- 1991 *Eastern Cape Wild Bird Society, Port Elizabeth.* - "Long distance migration by waders: choice or necessity?"
- 1991 *Marine, estuarine and freshwater ecosystems conference, Grahamstown.* - Presentation: "Long distance migration by Whimbrels: choice or necessity?"
- 1991 *PFIAO AGM, UCT.* - "Dark secrets unravelled: nocturnal foraging and wader energetics"
- 1989 *Symposium of the Zoological Society of Southern Africa, Etosha, Namibia.* - Presentation: "Distribution and diversity of large African mammals."
- 1990 *PFIAO AGM, UCT.* - "Foraging of Grey Plovers and Whimbrels - different solutions to the same problem?"
-