

Sean Weaver : Senior Environmental Consultant & Social Entrepreneur

Qualifications: • PhD, Forestry, University of Canterbury 1994.
• BSc Hons (1st Class) Botany, Victoria University of Wellington 1987.

Nationality: New Zealand

Date of Birth: 9 April 1965

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Field of Special Competence:

Sean is an expert in environmental standards and quality control and quality assurance systems for environmental performance. He has designed internationally certified environmental performance methodologies and programmatic protocols in the REDD+ & Payment for Environmental Services' sector. His expertise and experience also extends into the business development side of PES and environmental financing systems with an acute sensitivity to efficiency and cost effectiveness.

- **Indigenous Forest Carbon:** REDD+ policy, strategy, project and programme development (Plan Vivo, VCS, ISO14064-2 standards), with a focus on the Pacific Islands and New Zealand.
- **Payment for Environmental Services (PES):** practical environmental finance, the economics of ecosystems and biodiversity (TEEB), project and programme design and development.
- **Climate Change Policy:** Forest carbon policy, and carbon/climate financing.
- **Sustainability Education:** Intersection of environment and development.

Current Positions:

- Executive Director and Founder: [Ekos](#) – a charitable trust specialising in environmental financing through linking payment for ecosystem services and corporate social responsibility.
- Principal and Owner: [Carbon Partnership Ltd.](#) A consulting business focusing on indigenous forest carbon finance, and working in New Zealand and the Pacific Islands.
- Co-CEO and Founder: [The Nakau Programme Pty Ltd.](#) A social purpose business operating a rainforest Payment for Environmental Services programme in the Pacific Islands.

Summary of Experience:

Environmental Business Experience:

- Current positions listed above
- Founding Chair of Carbon Logistics Ltd (no website - special purpose vehicle for a commercial pilot biogas project) (current)

- Founding board member of [BioceptionNZ Ltd](#) (current)
- Governing Board member [Carbon Farming Group](#) (stepped down 2015)
- Founding chairperson of the [Sustainability Trust](#) (stepped down in 2008)

Sean has developed consultative processes, business models, budgets, project plans, quality control and quality assurance protocols, and performance measurement systems for several of these initiatives above - some of which are funded through grants and others funded through a combination of grants and commercial activity. This has included 6 and 7 figure national & international fundraising efforts and the design/development of internationally certified performance-based 'payments for environmental services' (PES) systems. He has developed governance and business rules for several entities contained in the organisations listed above, including dispute resolution protocols. He has also provided consulting services to other community organisations on business structure, strategy, financing, and performance measurement systems.

Environmental Consultant Experience:

An environmental consultant and social entrepreneur specializing in performance-based payment for environmental services (PES), indigenous forest carbon management, Reducing Emissions from Deforestation and Degradation (REDD+), and associated carbon markets and climate policy. Over 25 years experience in sustainable development with an emphasis on environment-economy linkages.

Specific Experience (Payment for Environmental Services):

- **Ekos:** Founder and Executive Chairperson of Ekos – an environmental financing charity specialising in performance-based payments for environmental services (principally indigenous forest carbon markets). Specialising in supply side methodology and programme design and programme operator; demand side sales and marketing including carbon-related claims, and non-carbon PES products and services.
- **Nakau Programme:** Co-Founder and Lead technical consultant for design & development of a project-based

forest PES / forest carbon financing programme for the Pacific Island region. Certified to the Plan Vivo Standard.

- **Pacific Regional Policy Framework for REDD+:** Lead consultant for the development and drafting of a REDD+ policy framework for the 14 independent countries of the Secretariat of the Pacific Community: Client Secretariat of the Pacific Community/GIZ (2011-2012).
- **Rarakau Rainforest Conservation Project:** Project developer and methodology designer for New Zealand's first rainforest carbon project validated to the ISO1464-2 standard. (2008- ongoing).
- **Vanuatu REDD+ Policy:** Lead policy consultant during phase 1 & 2 of the Vanuatu REDD+ programme; Drafting policy elements of Vanuatu R-PP for the World Bank Forest Carbon Partnership Facility. (2007-2012).
- **Fiji National REDD+ Programme:** Lead consultant supporting the development of the Fiji REDD+ policy and strategy. (2009 - 2011).
- **Reference Level Approach NZ Kyoto Article 3.4 Indigenous Forests:** Lead consultant. Client: NZ Ministry of Agriculture and Forestry (2011).
- **Integrated Financing Strategies for Sustainable Land Management in Fiji and Samoa.** Policy consultant. Client: Landcare Research / SPREP (2011/2012).
- **EBEX21 Programme Methodology Alignment to ISO14064-2:** Policy consultant. Client: Landcare Research Ltd. (2010).

Career History Prior To Current Positions:

April 2001 – October 2007. Senior Lecturer & Coordinator, Environmental Studies Programme, School of Geography, Environment and Earth Sciences, Victoria University of Wellington. Role included academic teaching and research, managing research teams and funding and managing staff and associated budgets for Environmental Education Advisors to schools in the Wellington region.

December 1999 – April 2001. Policy Advisor, Green Parliamentary Office, NZ Parliament.

June 1998 – August 1999. Education Officer, Christchurch Environment Centre

1997, 1998, 2000. Temporary Lecturer:

- Victoria University of Wellington (Geography)
- University of Canterbury (Forestry, Geography, Sociology)
- Lincoln University (Resource Management)

July – December 1996. Lecturer, Human Geography, Department of Geography, University of the South Pacific, Suva.

1995. Research Scholar, Macmillan Brown Centre for Pacific Studies, University of Canterbury, New Zealand.

1988 – 2000. Environmental Consultant:

- Greenpeace Pacific. Forest conservation and community development in Fiji. (*December 1999-February 2000*)
- World Wide Fund for Nature (WWF) International. Fiji Sea Turtle Conservation Strategy (*Feb –July 1996*).
- Royal Forest and Bird Protection Society. High country land tenure review (*May-July 1995*).
- IUCN The World Conservation Union. Fiji National Environment Management Project. National inventory of indigenous vegetation types; conducted a survey of tourism industry operators on the links between tourism and environmental protection; social dimensions of environmental protection in rural Fijian communities (*July 1991 - January 1992*).
- Fiji Native Land Trust Board. Indigenous forest conservation policy and a review of environmental policy and planning in Fiji (*August - November 1990*).
- NZ Royal Forest and Bird Protection Society. Co-developed a National Park system proposal for Fiji (*October - December 1988*).

1989: Research Officer, NZ Royal Forest and Bird Protection Society. Policy analysis and research on forest conservation, pollution prevention, recycling, marine mammals protection, and wild animal control.

1988: Field Officer, NZ Department of Scientific and Industrial Research, Grasslands Division. Field data collection for a national inventory on pasture composition.

Awards & Peer Esteem:

New Zealand Sustainable Business Network Award "Restorative Innovation" category winner (2016).

NZ National Tertiary Teaching Excellence Award (2008)

Victorias Award "Best Lecturer Faculty of Science" (2003, 2005, 2007); Victorias Award Most Challenging And Stimulating Course (2005). Victoria University Tertiary Teaching Excellence Award (2006).

Member of the Ako Aotearoa Academy of Tertiary Teaching Excellence (NZ).

NZ Royal Society Climate Expert Panel (2006-2012).

Expert Reviewer, IPCC Fourth Assessment Report.

Reports & Publications:

94 reports, 25 peer-reviewed articles, 4 book chapters, 41 non-peer reviewed articles, 86 conference presentations & seminars. List of publications available on request.

References:

Available on request.

Career Highlights

- **Nakau Programme:** Designed technical elements of the Nakau Programme – a Payment for Ecosystem Services (carbon, biodiversity) programme for rural Pacific Island communities. Includes three rainforest conservation projects in the Solomon Islands, Vanuatu and Fiji.
- **Rarakau Programme:** Designed and built the Rarakau Programme – a Payment for Ecosystem Services (carbon, biodiversity) programme for rural Maori landowners in New Zealand. Certified to the ISO14064-2, and the VCS Standards. Units issued: 2009-2011 vintages issued in 2014 by Markit Environmental Registry (London).
- **Vanuatu Government REDD+ Program:** Lead policy advisor to the Vanuatu government’s REDD+ Program (Reducing Emissions from Deforestation and forest Degradation) (2006-2012).
- **Fiji Government REDD+ Program:** Lead policy advisor to the Fiji Government’s REDD+ Program (2009-2011).
- UNFCCC & World Bank negotiator for Vanuatu (2007-2010).
- **Co-Author: Leader’s Guide to International Emissions Trading & Carbon Markets:** Commissioned by Tony Blair’s expert advisory group. Copies distributed to all intergovernmental negotiators at the 15th Conference of Parties to the UNFCCC in 2009 in Copenhagen.
- **NZ West Coast Forests:** Designed and successfully promoted the regional economic development package (worth NZ\$120 million) that was adopted by the NZ Government in 2000 to resolve the long-standing national dispute over the protection of 130,000ha of lowland indigenous forest in New Zealand.
- **Fiji Sea Turtles:** Designed the Fiji Sea Turtle Conservation Strategy that was adopted by the Fiji Government in 1997 and led to the termination of commercial harvests of sea turtles in Fiji.
- **Wabu Creek Forest:** Designed the reserve proposal and successfully negotiated with the Fiji Government for the protection of the Wabu Creek forest (4,000ha of pristine kauri forest in central Viti Levu, Fiji), including a payment for ecosystem services payment to the indigenous landowners (FJ\$7 million) (1992).

Publications

QUALITY ASSURED ARTICLES (CLIMATE CHANGE RELATED)

- Weaver, S.A. 2016. Rainforest carbon financing in New Zealand: A case study of REDD+ on Maori land. *New Zealand Geographer* Vol. 72(2): 122-132.
- Weaver, S.A. 2015. Practitioner perspective on REDD: Commercial challenges in project-based rainforest protection financing in the Asia Pacific region. *Asia Pacific Viewpoint*. *Asia Pacific Viewpoint*, Vol. 56 (1):140-152.
- McGregor, A. Weaver, S.A., Challies, E., Howson, P., Astuti, R., and Haalboom, B. 2015. Practical critique: Bridging the gap between critical and practice-oriented REDD+ research communities. *Asia Pacific Viewpoint*, Vol. 55 (3): 277–291.
- Russell, S., Greenaway, A., Carswell, F., and Weaver, S. 2013. Moving beyond “mitigation and adaptation”: examining climate change responses in New Zealand. *Local Environment: The International Journal of Justice and Sustainability*, DOI: 10.1080/13549839.2013.792047.
- Gleisner, B. and Weaver, S.A. 2006. Cars, Carbon and Kyoto: Evaluating an emission charge as an incentive for a transition to hybrid cars. *Kotuitu: New Zealand Journal of Social Sciences*. 1: 81-89
- Weaver, S.A. 2006. A scientific backdrop to climate change policy. *Policy Quarterly* 2(1): 10-19.

QUALITY ASSURED ARTICLES (OTHER)

- Ampuero, D. Miranda, C.E., Delgado, L.E., Goyen, S. and Weaver, S.A. 2013. Empathy and critical thinking: primary students solving local environmental problems through outdoor learning. *Journal of Adventure Education & Outdoor Learning*. DOI: 10.1080/14729679.2013.848817.

- Weaver, S.A. 2006. Chronic toxicity of 1080 and its implications for conservation management in New Zealand. *Journal of Agricultural and Environmental Ethics*. 19: 367-389.
- Corin, S. and Weaver, S.A. 2005. A risk analysis model with an ecological perspective on DDT and malaria control in South Africa. *Journal of Rural and Tropical Public Health* 4: 21-32.
- Weaver, S.A., and Morris, M. 2005. Risks associated with genetic modification – an annotated bibliography of peer reviewed natural science publications. *Journal of Agricultural Environmental Ethics* 18(2): 157-189.
- Weaver, S.A., and Morris, M. 2004. Science, pigs and politics: A New Zealand perspective on the phase out of sow stalls. *Journal of Agricultural and Environmental Ethics* 17:51-66.
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- Weaver, S.A. 2003. Policy implications of 1080 toxicology in New Zealand. *Journal of Rural and Remote Environmental Health* 2(2): 48-56.
- Morris, M., and Weaver, S.A. 2003. Minimising harm in agricultural animal experimentation in New Zealand. *Journal of Agricultural and Environmental Ethics* 16: 421-437.
- Morris, M. and Weaver, S.A. 2003. Minimising harm in possum control in New Zealand. *Journal of Agricultural Environmental Ethics* 16: 367-385.
- Morris, M.C. and Weaver, S. A. 2002. Advances in animal welfare in New Zealand. *New Zealand Veterinary Journal*, 50(5): 211.
- Weaver, S.A. 1998. Co-existence and Cultural Difference: Postcolonial Ecology in the Contemporary Pacific. *Pacific Conservation Biology* 4 (1): 11-20.
- Weaver, S.A. 1997. The call of the kereru: the question of customary use. *The Contemporary Pacific* 9 (2): 383-398.
- Weaver, S.A. 1996. Broadening Environmental Management in Fiji. *Pacific Conservation Biology* 2(4): 315-320.
- Weaver, S.A., and King, B. 1996. Environmental Management and the Fiji Tourism Industry. *Journal of Pacific Studies* 19: 127-144.
- Weaver, S.A. 1992. Nature tourism as a means of protecting indigenous forest resources in Fiji. *Journal of Pacific Studies* 16: 63-73.
- Weaver, S.A. 1988. The use of increment cores for the analysis of tree ring chronologies in *Agathis macrophylla*. *Tuatara* 30: 51-54.
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- Hyland, F.M., MacDonald, I., Weaver, S.A., Oats, M.R. 1987. Secondary succession in Windy Gully, Mt Rimutaka. *Tuatara* 29 (1): 34-43.
- King, B., and Weaver, S. A. 1993. The impact of the environment on the Fiji tourism industry: a study of industry attitudes. *Journal of Sustainable Tourism* 1(2):97-111.

BOOK CHAPTERS

- Weaver, S.A. 2011. The Art of Climate Protection. A Pacific Story. In McKinnon, D. and S. Jerram (eds), NowFuture. Publisher, Wellington.
- Weaver, S.A. 2011. The Voluntary Carbon Market, In Alastair Cameron (ed), Climate Change Law and Policy in New Zealand. Lexus Nexis NZ Ltd, Wellington.
- Weaver, S.A. 2008. Case study: West Coast Development Trust, a New Zealand example. In Streck, C., O'Sullivan, T. Janson-Smith, and R. Tarasofsky (eds) *Forests and Climate Change: Will Emission Trading Make a Difference?* Chatham House, London, and Bookings Institution Press, Washington DC.
- Weaver, S.A. 2006. 'Reducing Emissions from Deforestation' in R. Chapman, Boston, J., Schwass M. (eds) *Confronting Climate Change: Critical Issues for New Zealand*. Victoria University Press.

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- Weaver, S.A. 2015. Technical Specifications Module (C) 1.1 (IFM-DtTF) Improved Forest Management – Degraded to Tall Forest V1.0. D2.1.2 v1.0, 20151009. Live and Learn International, Melbourne, Australia.
- Weaver, S.A., and Payton, I. 2015. Technical Specifications Module (C) 2.1 (AD-DtPF) Avoided Deforestation – Deforestation to Protected Forest V1.0. D2.2.1 v1.0, 20150815. Live and Learn International, Melbourne, Australia.
- Nelson, A., Andre, G., Weaver, S.A., Warakar, S., and Henderson, R. 2014. Project Idea Note: Loru Forest Project, at Loru, Espiritu Santo, Vanuatu, for the Nakau Programme. 9 October 2014. Live and Learn International, Melbourne, Australia. Registered and approved by the PlanVivo Standard.
- Weaver, S.A. Henderson, R.J. and Nelson, A. 2015. Nakau Methodology Framework: General methodology for the Nakau Programme: A payment for ecosystem services programme. D2.1 v1.0, 28 April 2014. Live and Learn International, Melbourne Australia. Validated to the Plan Vivo Standard, 2015.
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- Lalabalavu, J., Weaver, S.A. Nelson, A. and Henderson, R. 2013. Drawa Forest Carbon Project: Project Idea Note (PIN). An Improved Forest Management Project Vanua Levu, Fiji. Live & Learn Environmental Education, Suva, Fiji and Carbon Partnership Ltd. Takaka, New Zealand.
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- Weaver, S.A. Hewitt, T., and Fahey, G. 2012. Rarakau Forest Carbon Project: Project Description Documentation. IFM-LtPF Inception Project For the Rarakau Programme. Rarakau Programme Report D3.P1.1 v1.0, 15 May 2012.
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- Weaver, S.A. 2012. Vanuatu R-PP Policy Roadmap V2. Prepared for the Government of Vanuatu by Carbon Partnership, August 2012.
- Weaver, S.A. 2012. Pacific REDD+ IFM-LtPR Methodology V1.0. An Improved Forest Management – Logged to Protected Forest, Grouped Project Methodology for the Pacific Islands. Draft V1.0. Prepared for Live & Learn Environmental Education by Carbon Partnership, November 2012.

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- Weaver, S.A. 2012. Inhutani Payment for Ecosystem Services Project Scoping Report. Prepared for PT SG Consulting Ltd., Indonesia by Carbon Partnership Ltd. October 2012.
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- Weaver, S.A. 2012. Pacific Islands Regional Policy Framework for REDD+. Fifth Regional Meeting of Heads of Agriculture and Forestry Services (HOAFS), Nadi, Fiji Islands, September 2012. SPC/HOAFS Working Paper 3.
- Weaver, S.A. 2012. Regional REDD+ Policy Consultation Briefing. International Climate Initiative. Regional Project: Climate Protection through Forest Conservation in Pacific Island Countries. Secretariat of the Pacific Community and GIZ. February 2012, Suva.
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- Weaver S.A. 2011. Butmas Forest Carbon Project. Prefeasibility Assessment For The Butmas Forest Carbon Project, Espiritu Santo, Vanuatu. Prepared for Live and Learn Environmental Education, August 2011. 32p.
- Weaver, S.A. 2011. Fiji REDD+ Programme: Identification and Planning of Pilot Sites. SPC/GIZ Pacific-German Regional Program on Coping with Climate Change in the Pacific Island Region (CCCPIR). 30p.
- Weaver, S.A. 2011. Fiji REDD+ Carbon Financing Guidelines V1, May 2011. SPC/GIZ Pacific-German Regional Program on Coping with Climate Change in the Pacific Island Region (CCCPIR). 48p.
- Weaver, S.A., Payton, I.J., Hewitt, T., Ward, M., and Walcott, H. 2011. An Incentive Mechanism for Indigenous Forest Carbon Management. Enhancing the carbon balance in Kyoto Protocol Article 3.4 forests in New Zealand. Report to MAF Policy, Carbon Partnership Ltd. March 2011.
- Weaver, S.A. Payton, I., and Herold, M. 2011. Inception Workshop and Regional REDD+ Strategy Framework Development Report. Compiled by Carbon Partnership Ltd. for the SPC/GIZ Regional Project Climate Protection Through Forest Conservation In The Pacific Island Countries, International Climate Initiative, German Federal Ministry for the Environment. February 2011.
- Weaver, S.A., Herold, M., and Payton, I. 2011. Fiji REDD+ Strategy Workshop Report. SPC/GIZ Pacific-German Regional Program on Coping with Climate Change in the Pacific Island Region (CCCPIR), Suva, January 2011.
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- Weaver, S.A., Hewitt, T., Payton, I.J., and Barringer, J. 2010. Rowallan-Alton Forest Carbon Project. Scoping Project Description Documentation for Improved Forest Management, Conversion of Logged to Protected Forest in Southland, New Zealand. Carbon Partnership Ltd.
- Weaver, S.A. 2010. The Koru Standard. Proposal for the development of a New Zealand domestic voluntary carbon market standard. Carbon Partnership consulting report, March 2010.
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- Weaver, S.A., Orcheron, D., and Brown, A. 2010. Forests Climate Change and REDD: A Pacific Perspective. Contribution to the UNEP PECCO Report 2010. Carbon Partnership Ltd, University of the South Pacific.
- Weaver, S.A., and Boys, R. 2010. Climate Change Knowledge Networks. A national database of community climate change projects. Report to the Hikurangi Foundation, June 2010.
- Weaver, S.A. 2010. ANZICE Briefings: 1. Antarctica, 2. Oceans, 3. Climate Models, 4. Science – Policy Interface. ANZICE science – policy briefings. School of Geography, Environment and Earth Sciences, Victoria University of Wellington.
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- Weaver, S.A. 2010. REDD Quality Assurance Standards. Developments in the UNFCCC Compliance Environment, and the Voluntary Carbon Market. Carbon Partnership consulting report prepared for Live & Learn Environmental Education, Australia. May 2010.
- Weaver, S.A., Boys, R. 2010. GNS Footprint Reduction and Efficiency Programme: Waste Audit and Footprint Reduction Scoping Report. Carbon Partnership consulting report prepared for Geological and Nuclear Sciences, January 2010.
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- Weaver, S.A., Ward, M. Payton, I., deRoiste, M., and Hewitt, T. 2008. Carbon market opportunities for SILNA forest owners. Phase 1 Report: Scoping and policy analysis. Te Puni Kokiri & Victoria University.
- Weaver, S.A. 2008. Meeting Report – Vanuatu Delegate. Design Meeting on the World Bank Climate Investment Funds. Potsdam, Germany, May 21, 22, 2008.
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