

Helmut J. Janssen

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C U R R I C U L U M V I T A E

KEY ATTRIBUTES : Leadership; innovative; motivated; high-performance team-player; initiative; organised; energetic; creative.

KEY EXPERIENCE :

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- 1. Environmental information for holistic, ecosystem-based cultural development.**

 - 2. Strategic Policy Advice.**

 - 3. Environmental and Community Resilience.**

S U M M A R Y O F Q U A L I F I C A T I O N S

Geographic Information Systems (GIS); 1998 - 2012

Certificates in Arc GIS and application of statistical software.
Spatial information from analyses of environmental data.

Tikanga, Te Ao and Te Reo Maori 2004

Certificate

Farm Forestry (TOPNZ) 1996-97

Certificate in Farm-Forest Management (with distinction)

University of Otago 1995

Dunedin, New Zealand

Master of Science.
Forest Ecology
Ecosystem Strategies.

University of Giessen, 1983

Hessen, Germany

University Degree (with distinction) in
Physical and Cultural Geography, Botany, Soils, Geology.

Gymnasium Thomaeum 1978

Kempen, North Rhine Westfalia, Germany

Certificate of University Entrance
Principal graduation subjects:
Biology, Geography, English, Sports.

C O N T I N U O U S L E A R N I N G

- Carbon assessment and modeling workshop** 2010
Alternative species. School of Forestry, University of Canterbury
- Physical fitness** *at all times*
Extensive outdoors experience, tramping, cycling; martial arts 1st Dan.
- Quality Tools for Excellence** 2002
Emotional Intelligence, Organisational alignment, Pareto charts, Force Field analysis
- Ecological database design** 1997-2001
Design and development of regional biodiversity database to enter, store, retrieve and analyse ecological research and monitoring data, using spatial and thematic queries.
- Public Presentation, Toastmasters** 1997
Plain language writing
- University of Giessen** 1982-83
Hessen, Germany
Studies in Physical Geography, Ecology, Botany
- University of Marburg** 1981-82
Hessen, Germany
Studies in Cultural Geography, Resource Mgmt, Planning.
- University of Bonn** 1980-81
North Rhine Westfalia, Germany
Studies in Geography, Geology, Soilsience, Planning and Statistics.
- Networking, project management and team building** *from 1980*
Experience, workshops and courses
- Higher education. Certificate of University Entry** 1969-78
North Rhine Westfalia, Germany
Sciences, Languages (German, English, French, Latin);
Resource Management studies, Music and Sports.
- Drivers Licences / First Aid Certificate** 2010
Classes: A; B; F;
NZ Certificates for ATVs, 4 WD, off road motorcycle 2004
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Director, Advisor; Project Manager:

Reciprocate Biocapacity Ltd NPO see: LifeCapacity.org from 2008

Ecosystem – based Culture. Trustee: Tui Wildlife Trust

Adaptive Resource Management Ltd from 2005

Tutor: Organic Agriculture; Permaculture

Holistic Environmental Mgmt Plan for Te Atiawa Te Tau Ihu

Re-Foresting NZ programme

(www.bushvitality.org.nz/Reforestation_NZ)

Method to identify eco-seedsources from indigenous stands for native re-forestation projects (MAF Sustainable farming fund project 06/047)

Biodiversity Prioritisation methods (Canterbury RC, Nelson CC)

Teamwork, People Management

Indigenous Afforestation Project scoping: Far North District Council, Te Runanga o te Rarawa; Ata Rangi wines; Federated Farmers Regional President Dan Steele Retaruke – Wanganui

Eco-Guide, Totaranui, Queen Charlotte Track.

Permaculture site; project and staff management, Motueka

Agroecology workshops: Bush Vitality Assessment. Growing Common Futures 2006. Revised edition www.bushvitality.org.nz

Trustee: Tane's Tree Trust

Manawatu-Wanganui Regional Council 1997-2005

Liaise with staff, external organizations and key stakeholders.

Provide robust environmental information and strategic planning advice for:

- Effective policy development and environmental management
- State of the Environment reporting and presentation.
Growth-statistics of organic agriculture and range of produce
- Proactive sustainable development initiatives that integrate protection and organic production.

Publications:

1. Dymond, Janssen, Ausseill, Shepherd (2007). A landscape approach for assessing the biodiversity value of indigenous forest remnants. J. Ecological Economics 64, 82-91.
 2. **Bush Vitality Assessment. Growing Common Futures.** pp186. (2004; 06)
 3. **Biodiversity and Wetland Inventory and Prioritisation** (2005)
 4. **Native Biodiversity Information.** Issues and Options for the Manawatu District (2002, for Manawatu District Council)
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5. **Ecological Assessment** of a Forest Remnant within the Kahikatea Floodplain Ecosystem (2002, for Palmerston North City Council).
6. **State of the Environment reports**, 1999 (Award-winning) and 2005. Ecosystems, Soils, Organic Agriculture chapters.
7. **Visual Soil Assessment. Field guides and management guidelines for lowland and hill country land uses (2000)**. Project manager and co-author. Technology transfer.

Soil quality assessment tool for iwi and farmers.

8. **Presentations / Workshops:**

Safe-guarding Lifecapacity workshops: Permaculture Oceania, Councils.

Biodiversity hotspot Nelson, New Zealand. Investigations for funding support of eco-sourced indigenous afforestation. Sealord, Tourism NZ, Forest Finance, CO₂OL ev. Forest Stewardship Council, Bonn (2008-9).

Biodiversity prioritization and integration workshops for GWRC, Nelson, Tasman, MarlDC, WRC, ECan, EWaikato, Hawkes Bay, FNDC, DoC Wanganui and Wellington Conservancies;

Bush Vitality Assessment workshops for Tasman DC, horizonsmw and Taranaki Regional Councils in conjunction with Tane's Tree Trust.

Environmental information and biodiversity site-prioritization methods at:

- Landesanstalt fuer Oekologie, Bodenkunde und Forsten, North Rhine Westfalia, Germany (2000; 2004; 2005; 2006, 2008, 2010)
- Umwelt Forschungszentrum, Leipzig, Germany (2000; 2004)
- Southland Regional Council (2003)
- Hawkes Bay Regional Council (2003)
- Department of Conservation Wanganui Conservancy; Wellington Head Office (2001-4)
- NZ Ecological Society Conferences 2000 – 2006.
- Local Government forum Greater Wellington RC (1998; 2004).
- Public meetings

Biodiversity / biosecurity issues

- NZ Biodiversity Strategy,
- Councilors workshops,
- Planning group meetings, District Councils,
- Community organizations (Green Corridor Group, Manawatu; Iwi; Federated Farmers; NGOs; QE II; Fish and Game; Forest and Bird).

Habitat and population analyses to prioritise ecological restoration projects:

- Presentation of methods to identify KNEs functionally intact significant natural areas.
- Presentation on fragmentation analysis of native habitats
- Research paper on genetic indigenous biodiversity of *Melicytus ramiflorus* from ecosystem remnants throughout the Tararua District.

Design and development of GIS-linked biodiversity database.

Design of monitoring methods to assess state and pressures on regional biodiversity and native ecosystem function on private land

Regional ecosystem classification (L.R.I. and GIS) for the purpose of monitoring land use effects and assessing the significance of native ecotopes.

Consultancy, various Regional - and District Councils, 1995 -97

Forest Management Plans: "Silvicultural succession from exotics to indigenous permanent canopy forests."

Development and presentations of a generic methodology to monitor land use effects on soil quality.

- Northland Regional Council, Whangarei.

Methodology provided to monitor the nutrient storage capacity of soils under various types of vegetation and management.

- Tasman District Council, Richmond.

Sustainable management of soil resources.

Methodology provided to monitor the nutrient storage capacity of soils under various types of vegetation and management for the Tasman District. Korere trial farm (April 1996).

University of Otago, 1993-95
Dunedin, New Zealand

Master of Science. Forest Ecosystem Strategies

Original experimental design and comprehensive parameter analysis.

Statistical analyses demonstrate:

1. Distinct ecological strategies of tree species from temperate forest ecosystems.
2. Trees adapted to fire-regeneration, significantly deplete all soil quality parameters including soil carbon, compared to non-fire adapted indigenous or exotic deciduous trees that instead restore and maintain all measured soil quality parameters.

Consultancy, 1991-93
Tasman Bay, New Zealand

- Feasibility study to position New Zealand as a catalyst for development of sustainable energy production, storage and use.
- Regional resource management issues
- Landuse effects on soil quality
- Ecosystem-, permaculture and landscape design
- Permanent canopy silviculture and agro-forestry

Conference paper, 1991
Napier, Hawkes Bay, New Zealand

International Conference on Sustainable Land Management:

Title: "Shelter-wood Forestry:"

Sustainable Land Management in Production Forestry."

Conservation officer,*1990-91*

Department of Conservation

Protection section, Nelson - Marlborough Conservancy:

- Classification system for scientific information;
- Analysis of submissions on proposals for marine reserves (Whanganui / Westhaven inlet, Abel Tasman National Park);
- Publication of Conservancy report;
- Inventory and population assessment of endangered species (Blue duck Kahurangi; Little spotted Kiwi, Marlborough Sounds);
- Mapping of pest-plant distribution;
- Conservation assessment of foreshore applications;
- Data ordination of coastal marine biota;
- Preparation of D.o.C. submissions to:
 - A M.A.F. proposal; "Facilitation of Aid on Risk Management";
 - The management and protection of riparian corridors.

Nelson, Four Seasons,*1987-89***Customer service:**

- Provision of advice on nutritional, medicinal and organic farming inquiries.

Local Exchange and Trade Systems*1988 -89*

Nelson; Motueka

- Leading initiative to set up organising teams
- Teamwork, establishing statutes and rules, liaising with Government Departments and local promotion of L.E.T. systems, until viability was assured by memberships exceeding 400 people.

Seminars held, publications*1987-88*

Nelson; N.Z.

- Polytechnic: Sustainability of agriculture and horticulture; historical developments; industrial agriculture; organic farming practices; permaculture.
- Environment journals and the magazine "Soil and Health": Man-made atmospheric pollutants, expected scenarios.

Ecological Restoration / Landscape Design,*1987***Otuwhero Peninsula, Nelson-Motueka**

Responsible for the site-selection of thirty indigenous tree species
Managing team to plant over 10,000 indigenous trees.

Nelson, New Zealand

Filing of botanical data for Dr. Peter Wilson. Identification of indigenous flora and the presence of exotic plants, with particular reference to forest associations and to species with **medicinal properties**.

Feasibility study examining the cultivation of medicinal plants in N.Z.

South East Asia, Eastern Australia, Tasmania, New Zealand.

1985

Comparative study of southern hemisphere temperate ecosystems and cultures, with a particular interest in ecosystem- adapted cultures.

Madagascar,

1984

Ecological and ethnological research, with logistical support from the Geography Department of the University of Giessen, Germany (Prof. Haffner, Geography; Prof. Knapp, Ecology).

Communities' cultural and sustainable adaptations to tropical forest-, temperate highland-, savanna-, and desert environments.

Workshops held locally to:

- Promote organic crop growing under tree cover instead of slash & burn
- Encourage the use of "build your own" wind turbines

Banned toxins on street markets:

- Lobbied the ambassadors of two countries with companies exporting DDT to intervene against such practice.

North-, Central and northern South America,

1979

Comparative study of land ecosystems and cultures.

Central Europe, Scandinavia,

Mediterranean, Iberian peninsula, Italy, Greece, Egypt,

1978-82

Travel objectives:

Study biogeography, ecological issues and cultures.

North Rhine Westfalia,

1976

Krefeld, West Germany

Department of Geology and Pedology (Dr. W. Paas):

Fieldwork to gather information on soil structure, texture and chemistry to a depth of 2 m, for the production of large-scale soil maps in North Rhine Westfalia, Germany.

L A N G U A G E S

ENGLISH; GERMAN; FRENCH; MAORI; SPANISH; SWEDISH; DUTCH; LATIN.

R E F E R E N C E S

COUNCILS:

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MANAGER POLICY/PROJECTS MANAWATU-WANGANUI RC,
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TANE'S TREE TRUST

IAN BARTON, CHAIRMAN.09 2392049 IBTREES@WC.NET.NZ

NZ BOTANICAL SOCIETY / QUEEN ELISABETH II NATIONAL TRUST

PETER VAN ESSEN, 06 3559076

Te Atiawa Manawhenua Ki Te Tau Ihu

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