

**Dr. Neil Evan Whitehead,**

**Scientific Consultant.**

**Born:** Dunedin, New Zealand 27/11/43

**Interdisciplinary Ph.D. in new methods of prospecting:** Victoria University of Wellington and Massey University, 1960-1970.

**Scientific work (applications of radioactivity):** Institute of Nuclear Sciences Department of Scientific and Industrial Research in Lower Hutt (N.Z. Government research), later Institute of Geological and Nuclear Sciences (Crown Research Institute). Now independent consultant. Several extended visits to Japanese universities at Visiting Professor level.

Member of Commission v7 of the International Union of Pure and Applied Chemistry. (Until 1983).

Member of the New Zealand Institute of Chemistry. Past member of the Geological Society of New Zealand.

Life Member of New Zealand Geochemical Group. Member of the International Society for Twin Studies, Founding Chairman of the South Pacific Environmental Radioactivity Association.

Married **Briar Kay Whitehead** (Born 6th Sep. 1948) in 1980.

**1970-1997** Scientist, team leader, Senior Researcher, New Zealand Department of Scientific and Industrial Research. First Institute of Nuclear Sciences, later Institute of Geological and Nuclear Sciences. Applications of radioactivity (much to geothermal prospecting and radiometric dating), trace element analysis techniques, earthquake prediction via radon analysis.

**1984-1987.** Leader of research group, International Atomic Energy Agency at Monaco (radioactivity of the sea).

**1997-2009** Scientific consultant, work with various entities including former Institute.

**2003** 10 months as Senior Research Fellow at Osaka University on biofilms, and earthquake prediction.

**2004** Consultant to NZ Ministry of Research Science and Technology on Bibliometry.

**2005** 6 months as Visiting Professor at Research Institute of Radiation Biology and Medicine, Hiroshima University, Japan on issues related to atomic weapons and their after-effects.

**2007** 2 months in same position, further one month in 2008, and 2009. 2 New research fields originated.

**2010-11** Research on Christchurch M7.1 quake

More than 140 scientific papers, many reports, articles, and several volumes of scientific material written or edited. Most connected with radioactivity.

## Publications

### Volumes

1. N.E.Whitehead (1965) *Acidic Hydrolases*. M.Sc. (Hons) Thesis, Victoria University of Wellington, Wellington New Zealand. 273pp
2. N.E.Whitehead (1970) *Aspects of Radiobiogeochemistry*. Ph.D. Thesis, Massey University, Palmerston North, New Zealand, 260pp
3. N.E.Whitehead (Ed.) (1986) *Behaviour of long-lived radionuclides associated with deep-sea disposal of radioactive wastes*. IAEA-TECDOC-368. IAEA, Vienna, 154pp.
4. N.E.Whitehead (Ed.) (1988) *Inventories of selected radionuclides in the oceans*. IAEA-TECDOC-481. IAEA, Vienna, 181pp.
5. Ikeya, M (Eds. Zimmerman, MR, Whitehead, N) (1993) *New Applications of Electron Spin Resonance*, World Scientific, Singapore, 500pp.
6. Whitehead, NE, (1995): *Science and Sexuality*. N.E. and B.K. Whitehead, Lower Hutt, New Zealand, 37pp.
7. Whitehead, NE, Whitehead, BK, (1999): *My Genes Made Me Do It!* Huntington House, Lafayette, Louisiana, 233pp.
- 8 Whitehead, NE (Ed) (2002) Proceedings of the Osaka Symposium on New Prospects of ESR Dosimetry and Dating. *Advances in ESR Applications* 18, 360pp.
9. Ikeya, M. (Whitehead, NE & BK eds.) (2004). *Earthquakes and Animals*. World Scientific, Singapore, 295pp.
10. Hoshi, M, Stepanenko, VF, Endo, S, Tanaka, K, Whitehead, NE, Whitehead, BK, Tsyb, AF, (eds). (2006). *Semipalatinsk Research*. Journal of Radiation Research 47 (Supplement A) 223pp.
11. Whitehead, NE, Whitehead, BK, (1993) Submission to the Justice and Law Reform Select Committee on the Human Rights Commission Amendment Bill, 1992. Lion of Judah Ministries, Lower Hutt, 195pp

### Papers

1. T.W.Jordan, J.N.Smith, N.E.Whitehead (1968). Preparation of housefly oxidation enzymes. *Austral. J. Pharm.* 49(584):supplement 66 - unpagged.
2. R.R.Brooks, N.E.Whitehead (1968). A fluorimetric attachment for an atomic-absorption spectrophotometer. *J. Scientific Instrum.* 1:879-881.
3. N.E.Whitehead, R.R.Brooks (1969) A comparative evaluation of scintillometric, geochemical and biogeochemical methods of prospecting for uranium. *Econ. Geol.* 64:50-56.

4. N.E.Whitehead, R.R. Brooks (1969). Radioecological observations on plants of the Lower Buller Gorge region of New Zealand, and their significance for biogeochemical prospecting. *J. Appl. Ecol.* 6:310-310.
5. N.E.Whitehead, R.R.Brooks (1969) Aquatic bryophytes as indicators of uranium mineralisation. *Bryologist* 72:501-507
6. G.E.Coote, N.E.Whitehead, N.E.Cohen (1970) A contribution to the high-resolution gamma-ray spectrometry of uranium ores. *N.Z. J. Sci.* 13(4):610-622.
7. N.E.Whitehead, R.R.Brooks, G.E.Coote (1971). Gamma radiation of some plants and soils from a uraniferous area in New Zealand. *N.Z.J. Sci.* 14(1):66-76.
8. N.E.Whitehead, R.R. Brooks, P.J. Peterson (1971) The nature of uranium occurrence in the leaves of *Coprosma australis* (A.Rich) Robinson. *Austr. J. Biol. Sci.* 24:67-3.
9. G.E.Coote, N.E.Whitehead, G.J. McCallum (1972): A rapid method of obsidian characterisation by inelastic scattering of protons. *J. Radioanal. Chem.* 12:491-96.
10. N.E.Whitehead (1973) Examination of flints by inelastic scattering of protons. *Mem. Nat. Mus. Vic.* 34:225-228.
11. D.C.Robinson, N.E.Whitehead, G.E.Coote (1974) Proton induced x-ray fluorescence analysis and its uses in measuring air pollution. *Chem. N.Z.* 38:81-84.
12. N.E.Whitehead, B.W.Robinson (1974) Non-radioactive silver from Great Bear Lake, Canada. *Nature* 249:777.
13. N.E.Whitehead (1974) Reference retrieval. *Decuscope* 13(1):20
14. N.E.Whitehead (1976) Submission 28 to the Royal Commission on the consequences of a Nuclear Power Programme. 5pp.
15. K.J.D. McKenzie, N.E.Whitehead (1977) Radiation-induced defects in TiO<sub>2</sub> (anatase) powders. *Brit. Ceram. Soc. Trans.* 76(2):36-42.
16. P.L.Cropp, F.Hurst, G.Wallace, N.E.Whitehead, G.J.McCallum (1978) Some applications of non-dispersive x-ray fluorescence to forensic investigations. *N.Z.J. Sci.* 21(3):371-375.
17. N.E.Whitehead (1979) Methods of hair analysis by (p,X) spectrometry. *Nucl. Instrum. Methods* 164:381-388.
18. N.E.Whitehead (1979) Radon-222 measurements at Wairakei, Broadlands and Ngawha. *Proc. 5th Geotherm. Workshop, U. Stanford, 1979.* (SGP-TR-40) 335-341.
19. B.F.Leach, J.M.Davidson, G.McCallum, B. Partridge, I.W.G. Smith, N.E.Whitehead (1979) The identification of Dugong ivory reel artifacts from strontium content and microstructure. *N.Z. J. Archaeol.* 1:115-121.

20. N.E.Whitehead (1980) Radon measurements at three New Zealand geothermal areas. *Geothermics* 9(3/4):279-286.
21. N.E.Whitehead (1981) Radioanalytical methods in New Zealand 1944-1977. *J. Radioanal. Chem.* 66:507-536.
22. N.E.Whitehead (1981) A test of radon ground measurements as a geothermal prospecting tool in New Zealand. *N.Z. J. Sci.* 24:59-64.
23. N.E.Whitehead, J.E.Gingrich, J.C. Fisher (1983) A New Zealand test of the Track-etch method of prospecting for geothermal steam. *J. Volcanol. Geotherm. Res.* 15(4):339-354.
24. N.E.Whitehead, S.D. Devine, B.F.Leach (1983) Uranium-series and ESR dating at INS. *Proc. Symp. Archaeol. Sci. Pacific Reg. Dunedin* 1983. 50.
25. N.E.Whitehead (1983) In-vivo X-ray fluorescence. in S.Sankar Das (ed). "*Trace analysis and technological development*", Wiley Eastern Ltd. New Delhi. 210-217.
26. N.E.Whitehead (1984) Geothermal prospecting by ground radon measurements. *J. Volcanol. Geotherm. Res.* 20:213-229.
27. N.E.Whitehead, B. Oregioni, R.Fukai (1984) Background levels of trace metals in Mediterranean sediments. *VIIes Journées Etud. Pollutions.* C.I.E.S.M., Lucerne. 233-240.
28. S.R. Aston, S.W.Fowler, N.Whitehead, (1984). Mercury biogeochemistry in the Mediterranean marine Environment: and assessment of contamination. FAO/WHO/IAEA/UNEP meeting on the biogeochemical cycle of mercury in the Mediterranean , Sienna, Italy, 27-31 August 1984
29. N.E.Whitehead (1985) Dispersion of  $^{222}\text{Rn}$  from two New Zealand geothermal power plants. *J. Environmental Radioactivity* 2:245-257.
30. N.E.Whitehead, P.Pohl (1985) Sample preparation techniques for (p,X) spectrometry. in "*Health-related monitoring of trace element pollutants using nuclear techniques*", IAEA-TECDOC-330, International Atomic Energy Agency, Vienna, 211-218.
31. N.E.Whitehead (1985) More on intercalibration. *WACAF-2 Newsletter* 2(2):9-11.
32. N.E.Whitehead (1985) Values in science. *Nature* 317:570.
33. N.E.Whitehead (1985) Radon investigations at Ngawha. in M.A. Mongillo (Ed.) "*The Ngawha Geothermal Field. New and updated scientific investigations.*". D.S.I.R. Geothermal Report 8:171-177.
34. L. Huynh-Ngoc, N.E.Whitehead (1985) Distribution of zinc in a North-Western Mediterranean river. in T.D. Lekkas (Ed.) "*Heavy metals in the environment*", C.E.P. consultants, Edinburgh. 1:239-242.
35. P.J. Kershaw, M.M. Rutgers van de Loeff, N.E.Whitehead (1986) Sediment sorption properties. in R.R.Dickson, P.A. Gurbutt, P.J. Kershaw (Eds.) "*Interim oceanographic description of the*

*North-East Atlantic site for the disposal of low-level radioactive waste*". N.E.A.-O.E.C.D., Paris 89-96.

36. R.Robinson, N.E.Whitehead (1986) Radon variations in the Wellington region, New Zealand, and their relation to earthquakes. *Earthq. Pred. Res.* 4:69-82.

37. L.Huynh-Ngoc, N.E.Whitehead (1986) Nickel and cobalt determination in the North Western Mediterranean by differential pulse cathodic stripping voltammetry. *Oceanol. Acta.* 9(4):433-438.

38. N.E.Whitehead (1986) Factors influencing marine pollution surveys in West and Central Africa. in "*First Workshop of participants in the Joint FAO-IOC-WHO-IAEA-UNEP project on Monitoring of pollution in the Marine Environment of the West and Central African Region (WACAF/2 - Pilot Phase)*" Dakar, Senegal, 28 October-1 November 1985. Intergovernmental Oceanographic Commission, Workshop Report No 41: U.N.E.S.C.O., Paris. Annex VI.2,1-20.

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40. M.Ikeya, S.D.Devine, N.E.Whitehead, J.W.Hedenquist (1986) Detection of methane in geothermal quartz by ESR. *Chem. Geol.* 56:185-192

41. N.E.Whitehead, S.D.Devine, B.F.Leach (1986) Electron spin resonance dating of human teeth from the Namu burial ground, Taumako, Solomon Islands. *N.Z. J. Geol. Geophys.* 29:359-361.

42. L.Huynh-Ngoc, N.E.Whitehead, B.Oregoni. (1987) Distribution of Zn in a Northwestern Mediterranean River. *Water Air Soil Poll.* 34(3):315-324

43. S.B.Ballestra, E.Holm, A.Walton, N.E.Whitehead (1987) Fallout deposition at Monaco following the Chernobyl Accident. *J. Environmental Radioact.* 5:391-400.

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45. N.E.Whitehead (1988) The philosophy of science. *Nature* 331:13

46. L.Huynh-Ngoc, N.E.Whitehead, B.Oregoni (1988) Low levels of copper and lead in a highly industrialized river. *Toxicological and Environmental Chemistry* 17:223-236.

47. L.Huynh-Ngoc, N.E.Whitehead, B.Oregoni (1988) Cadmium in the Rhone river. *Water Res.* 22(5):571-576.

48. N.E.Whitehead, S.Ballestra, E.Holm, L.Huynh-Ngoc, (1988) Chernobyl Radionuclides in shellfish. *J. Environmental. Radioact.* 7:107-121.

49. N.E.Whitehead, S.Ballestra, E.Holm, A.Walton (1988) Air radionuclide patterns observed at Monaco from the Chernobyl accident. *J. Environmental Radioact.* 7:249-264.

50. N.E.Whitehead, J. De Vaugelas, P.Parsi, M.-C.Navarro (1988) Preliminary study of uranium and thorium redistribution in *Callinectes laurae* burrows, Gulf of Aqaba (Red Sea). *Oceanologica Acta* 11(3):259-266.
51. N.E.Whitehead, E.Holm, S.Ballestra (1988) Observation of  $^{111}\text{Ag}$  and  $^{110\text{m}}\text{Ag}$  in the Chernobyl fallout. *J. Radioanal. Nucl. Chem. Letters* 128(3):189-194.
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53. N.E.Whitehead, L.Huynh-Ngoc, S.R.Aston (1988) Trace metals in two North Mediterranean Rivers. *Water, Air, and Soil Pollution* 42:7-18.
54. S.Ballestra, J.Gastaud, E.Holm, J.Lopez, A. Walton, N.E.Whitehead (1988) Radioactivity in the Environment in Monaco after the Chernobyl accident. *Compt. Rend. Proc. Verb. Mar. Rad. Comm*, C.I.E.S.M, Palma, Majorca 1-11.
55. C.V.Nolan, N.E.Whitehead, J.L. Teyssie, R. R. Veselsky (1988) The radiochemistry and radioecology of tellurium in the marine environment. *Proc. Int. Conf. Environmental Radioactivity in the Mediterranean Area (Barcelona, May 1988)*.
56. L.Huynh-Ngoc, N.E.Whitehead, M.Boussemart, D.Calmet (1989) Dissolved Nickel and Cobalt in the Aquatic Environment around Monaco. *Marine Chemistry* 26:119-132.
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60. N.E.Whitehead (1989) Results of intercalibration exercises on low-level radionuclide measurements by CRESO participating laboratories. Chapter 19b in F. Nyffeler, W.Simmons (Eds.) *Interim Oceanographic description of the North-East Atlantic site for the disposal of low-level radioactive waste*. Nuclear Energy Agency, O.E.C.D., Paris. 3:132-137.
61. N.E.Whitehead, L. Huynh-Ngoc (1990) A study of the speciation of  $^{60}\text{Co}$  added to coastal pore water. *Oceanologica Acta* 13(2):211-217.
62. N.E.Whitehead, J.Barrie, P.Rankin (1990) Anomalous Hg contents in soils of Niue Island, South Pacific. *Geochemical Journal* 24:371-378.
63. C.Nolan, N.Whitehead, J.-L. Teyssie (1991) Tellurium - Speciation in Seawater and accumulation by marine phytoplankton and crustaceans. *J. Environmental Radioactivity* 13:217-233.

64. N.E.Whitehead, J.L.Hunt, D.M.Leslie, P.C.Rankin (1991) Determination of radioactivity and element concentration in soils from Niue Island. *D.S.I.R. Land Resources Technical Record 57*. D.S.I.R. Land Resources, Lower Hutt, New Zealand. 58 pp.
65. N.E.Whitehead, L.Huynh-Ngoc, J.P.Villeneuve (1991) Factors affecting inventories of Cs-137 and PCB's in the Mediterranean. *Reviews in Aquatic Sciences* 4(2-3):139-148.
66. W.J.McCabe, R.G.Ditchburn, N.E.Whitehead (1992) A method for the separation of Po, Th, Pa and U in high yields from various matrices. *J. Radioanal. Nucl. Chem. Art.* 159(2): 267-279
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68. N.E.Whitehead, R.G.Ditchburn, W.J.McCabe (1992) Factors affecting the electrodeposition of <sup>226</sup>Ra. *J. Radioanal. Nucl. Chem. Art.* 160(2):477-485
69. N.E.Whitehead (1992) Detection of geological faults using a nuclear method. *J. Radioanal. Nucl. Chem. Art.* 161(2):339-350.
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71. N.E.Whitehead, J.L.Hunt, D.M.Leslie, P.C.Rankin (1993) The elemental content of Niue Island Soils as an indicator of their origin. *N. Z. J. Geol. Geophys.* 36(2):243-255.
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73. N.E.Whitehead (1993) A new model for the origin of the anomalous radioactivity in Niue Island (South Pacific) soils – Reply. *Chemical Geology* 106(1/2):492-495.
74. E.Holm, S.Ballestra, J.J.Lopez, A.Bulos, N.E.Whitehead, G.Barci-Funel, G.Ardisson (1993) Radionuclides in macroalgae at Monaco following the Chernobyl Accident. *Journal of Radioanalytical and Nuclear Chemistry* 177(1):51-72.
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81. R.G.Ditchburn, N.E.Whitehead (1995) Separation of Ra and Th from rock matrices for alpha spectrometry. *Journal of Radioanalytical and Nuclear Chemistry Articles* 189(1):115-125.
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85. N.E.Whitehead, R.G. Ditchburn (1995) Two new methods of determining radon diffusion in fish otoliths. *Journal of Radioanalytical and Nuclear Chemistry Articles* 198(2):399-408.
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