

PUBLICATIONS

(I) Peer Reviewed Journal Publications

(N.B. I am second author on many publications involving my research students and junior staff. It is my policy that they are first author as training to write is part of the PhD and part of the mentoring process of staff)

1. **Cook, G.T.**, Babiker, A.G.T., Duncan, H.J. (1977) Penetration of bean leaves by aminotriazole as influenced by adjuvants and humidity. *Pesticide Science*, **8**, 137-146.
2. **Cook, G.T.**, Duncan, H.J. (1978) Uptake of aminotriazole from humectant-surfactant combinations and the influence of humidity. *Pesticide Science*, **9**, 535-544.
3. **Cook, G.T.**, Duncan, H.J. (1979) Mode of action of thiocyanates and iodides in aminotriazole formulations. *Pesticide Science*, **10**, 281-290.
4. Stephen, N.H., **Cook, G.T.**, Duncan, H.J. (1979) A possible mechanism for the selective herbicidal activity of iodide in relation to thiocyanate content. *Weed Research*, **19**, 395-398.
5. **Cook, G.T.**, Carr, K.E., Duncan, H.J. (1979) The influence of morphological differences in bracken pinnales on the foliar uptake of aminotriazole. *Annals of Applied Biology*, **93**, 311-317.
6. Stephen, N.H., **Cook, G.T.**, Duncan, H.J. (1980) Mode of action of thiocyanate and iodide in relation to IAA metabolism. *Weed Research*, **20**, 333-340.
7. Stephen, N.H., **Cook, G.T.**, Duncan, H.J. (1980) A possible mechanism of action of asulam involving folic acid biosynthesis. *Annals of Applied Biology*, **96**, 227-234.
8. **Cook, G.T.**, Stephen, N.H., Duncan, H.J. (1981) Influence of ammonium thiocyanate on scorching and control of bracken (*Pteridium aquilinum*) by amitrole. *Weed Science*, **29**, 196-200.
9. **Cook, G.T.**, Stephen, N.H., Duncan, H.J. (1982) Fundamental studies in bracken control - the use of additives to enhance herbicide uptake and translocation. *Proceedings of Royal Society of Edinburgh*, **81B**, 97-109.
10. Al-Jaff, D.M.A., **Cook, G.T.**, Stephen, N.H., Aitchison, T.C., Duncan, H.J. (1982) The effect of glyphosate on frond regeneration, bud development and survival and storage rhizome starch content in bracken. *Annals of Applied Biology*, **101**, 323-329.
11. **Cook, G.T.**, Baxter, M.S., Duncan, H.J., Malcolmson, R. (1984) Geochemical associations of plutonium and γ -emitting radionuclides in Caithness soils and marine particulates. *Journal of Environmental Radioactivity*, **1**, 119-131.
12. **Cook, G.T.**, Baxter, M.S., Duncan, H.J., Toole, J., Malcolmson, R. (1984) Geochemical associations of plutonium in the Caithness environment. *Nuclear Instruments and Methods in Physics Research*, **223**, 517-522.

13. Scott, E.M., Baxter, M.S., Aitchison, T.C., Harkness, D.D., **Cook, G.T.** (1986) Announcement of a new collaborative study for intercalibration of ^{14}C dating laboratories. *Radiocarbon*, **28**, 167-169.
14. **Cook, G.T.**, Harkness, D.D., Anderson, R. (1989) Performance of the Packard 2000CA/LL and 2250CA/XL Liquid Scintillation Counters for ^{14}C Dating, *Radiocarbon*, **31**, 352-358.
15. Harkness, D.D., **Cook, G.T.**, Miller, B.F., Scott, E.M., Baxter, M.S. (1989) Design and preparation of samples for the international collaborative study. *Radiocarbon*, **31**, 407-413.
16. Scott, E.M., Aitchison, T.C., Harkness, D.D., Baxter, M.S., **Cook, G.T.** (1989) An interim progress report on stages 1 and 2 of the international collaborative program. *Radiocarbon*, **31**, 414-421.
17. **Cook, G.T.**, Hold, A.G., Naysmith, P., Anderson, R. (1990) Applicability of new technology scintillation counters (Packard 2000CA/LL and 2260XL) for ^{14}C dating, *Radiocarbon*, **32**, 233-234.
18. Scott, E.M., Baxter, M.S., Aitchison, T.C., Harkness, D.D., **Cook, G.T.** (1990) An overview of some interlaboratory studies, *Radiocarbon*, **32**, 259-265.
19. **Cook, G.T.**, Harkness, D.D., Miller, B.F., Scott, E.M., Baxter, M.S., Aitchison, T.C. (1990) International collaborative study: structuring and sample preparation, *Radiocarbon*, **32**, 267-270.
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21. Scott, E.M., Aitchison, T.C., Harkness, D.D., **Cook, G.T.**, Baxter, M.S. (1990) An overview of all three stages of the international radiocarbon intercomparison, *Radiocarbon*, **32**, 309-319.
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23. McDonald, P., **Cook, G.T.**, Baxter, M.S. (1990) A radiological assessment of Scottish edible seaweed consumption, *Environmental Management and Health*, **1**, 17-26.
24. McDonald, P., **Cook, G.T.**, Baxter, M.S., Thomson, J. (1990) Radionuclide transfer from Sellafield to south-west Scotland, *Journal of Environmental Radioactivity*, **12**, 285-298.
25. Scott, E.M., Baxter, M.S., Harkness, D.D., Aitchison, T.C., **Cook, G.T.** (1990) Radiocarbon: present and future perspectives on quality assurance, *Antiquity*, **64**, 319-322.
26. Toole, J., MacKrell, A., **Cook, G.T.**, Baxter, M.S. (1990) An assessment of onland transfer of radioactivity near Dounreay, Scotland, *Journal of Environmental Radioactivity*, **12**, 299-329.
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28. **Cook, G.T.**, Anderson, R. (1991) The determination of ^{241}Pu by liquid scintillation spectrometry using the Packard 2250CA, *Journal of Radioanalytical and Nuclear Chemistry, Letters*, **154**, 319-330.
29. Scott, E.M., Harkness, D.D., **Cook, G.T.**, Aitchison, T.C., Baxter, M.S. (1991) Future quality assurance in ^{14}C dating, *Quaternary Proceedings*, **1**, 1-4.
30. **Cook, G.T.** (1992) Recent developments and applications in liquid scintillation counting, *Analytical Proceedings*, **29**, 4-6.
31. **Cook, G.T.**, Scott, E.M., Wright, E.M., Anderson, R. (1992) The statistics of low level counting using the new generation of Packard liquid scintillation counters, *Radiocarbon*, **34**, 360-365.
32. **Cook, G.T.**, Anderson, R. (1992) A radiocarbon dating protocol for use with Packard scintillation counters employing burst-counting circuitry, *Radiocarbon*, **34**, 381-388.
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34. Scott, E.M., **Cook, G.T.**, Harkness, D.D., Miller, B.F., Baxter, M.S. (1992) Further analysis of the international comparison study, *Radiocarbon*, **34**, 520-527.
35. Scott, E.M., Harkness, D.D., Miller, B.F., **Cook, G.T.**, Baxter, M.S. (1992) Announcement of a further intercomparison exercise, *Radiocarbon*, **34**, 528-532.
36. McDonald, P., **Cook, G.T.**, Baxter, M.S., Thompson, J.C. (1992) The terrestrial distribution of artificial radioactivity in south-west Scotland, *The Science of the Total Environment*, **111**, 59-82.
37. McDonald, P., **Cook, G.T.**, Baxter, M.S. (1992) Natural and anthropogenic radionuclides in U.K. coastal waters, *Radiation Protection Dosimetry*, **45**, 707-710.
38. Blackford, J.J., Edwards, K.J., Dugmore, A.J., **Cook, G.T.**, Buckland, P.C. (1992) Icelandic volcanic ash and the mid-Holocene Scots pine (*Pinus sylvestris*) pollen decline in northern Scotland, *The Holocene*, **2**, 260-265.
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41. Thomson, J., Colley, S., Anderson, R., **Cook, G.T.**, MacKenzie, A.B. (1993) ^{210}Pb in the sediments and water column of the Northeast Atlantic from 47 to 59°N along 20°W. *Earth and Planetary Science Letters*, **115**, 75-87.
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43. Thomson, J., Colley, S., Anderson, R., **Cook, G.T.**, MacKenzie, A.B. and Harkness, D.D. $^{230}\text{Th}_{\text{excess}}$ and radiocarbon systematics and holocene sediment fluxes in cores from a NE Atlantic area, *Paleoceanography*, **8**, 631-650, (1993). ISSN: 0883-8305.
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46. Dugmore, A.J., **Cook, G.T.**, Shore, J.S., Newton, A.J., Edwards, K. and Larsen, G. (1995) Radiocarbon dating tephra layers in Britain and Iceland. *Radiocarbon*, **37**, 379-388.
47. **Cook, G.T.**, Begg, F.H., Naysmith, P., Scott, E.M. and McCartney, M. (1995) Anthropogenic ^{14}C marine geochemistry in the vicinity of a nuclear fuel reprocessing plant. *Radiocarbon*, **37**, 459-467.
48. Shore, J.S., **Cook, G.T.** and Dugmore, A.J. (1995) The ^{14}C content of modern vegetation samples from the flanks of the Katla volcano, Southern Iceland. *Radiocarbon*, **37**, 525-529.
49. Thomson, J., Colley, S., Anderson, R., **Cook, G.T.** and MacKenzie, A.B. (1995) A comparison of sediment accumulation chronologies by the radiocarbon and $^{230}\text{Th}_{\text{excess}}$ methods. *Earth and Planetary Science Letters*, **133**, 59-70.
50. **Cook, G.T.** (1995) Enhanced low-level LSC performance for Carbon-14 dating using a bismuth germanate ($\text{Bi}_4\text{Ge}_3\text{O}_{12}$) quasi-active guard. *Radioactivity & Radiochemistry*, **6**, 10-15.
51. Pates, J.M., **Cook, G.T.**, MacKenzie, A.B., Anderson, R. and Bury, S.J. (1996) Determination of ^{234}Th in marine samples by liquid scintillation spectrometry. *Analytical Chemistry*, **68**, 3783-3788.
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54. **Cook, G.T.**, MacKenzie, A.B., McDonald, P. and Jones, S.R. (1997) Remobilisation of Sellafield derived radionuclides and transport from the north-east Irish Sea. *Journal of Environmental Radioactivity*, **35**, 227-241.
55. Logan, E.M, Pulford, I.D., **Cook, G.T.** and MacKenzie, A.B. (1997) Complexation of Cu^{2+} and Pb^{2+} by peat and humic acid. *European Journal of Soil Science*, **48**, 685-696.
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57. MacKenzie, A.B., **Cook, G.T.**, McDonald, P. and Jones, S.R. (1998) The influence of mixing timescales and re-dissolution processes on the distribution of radionuclides in northeast Irish Sea sediments. *Journal of Environmental Radioactivity*, **39**, 35-53.
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62. Passo, C.J. Jr., Anderson, R., Roberts, D., **Cook, G.T.** (1998) Performance of the Packard Tri-carb 2770TR/SL liquid scintillation analyzer for radiocarbon dating. *Radiocarbon*, **40**, 193-200.
63. MacKenzie A.B., Logan E.M., **Cook G.T.** and Pulford I D. (1998) A historical record of atmospheric depositional fluxes of contaminants in west central Scotland derived from an ombrotrophic peat core. *Science of the Total Environment*, **222**, 157-166.
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71. Bryant, C., Carmi, I., **Cook, G.T.**, Gulliksen, S., Harkness, D.D., Heinemeier, J., McGee, E., Naysmith, P., Possnert, G., Scott, E.M., van der Plicht, H. and van Strydonck, M. (2000) Sample requirements and design of a inter-laboratory trial for Radiocarbon laboratories. *Nuclear Instruments and Methods in Physics Research B*, **172**, 355-358.
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