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PERSONAL:

Born 9/20/45 - Lynn, Massachusetts; married, one child

EDUCATION:

Upsala College - B.S. Geology, 1968

University of Hawaii - M.S. Geochemistry, 1971

University of Hawaii - Ph.D. Marine Geochemistry, 1974

PROFESSIONAL POSITIONS:

Professor Emeritus (2012-present); Distinguished Research Professor (2010-present); Carl Henry Oppenheimer Professor (2003-present); Professor (1987 - present); Department Chairman (1991-1994); Associate Professor (1981 - 1987); Assistant Professor (1977 - 1981); Florida State University.

Visiting Scientist, Institute of Nuclear Geophysics, Federal University of Brazil, Salvador, Brazil; 1976-1977

Postdoctoral Researcher and Adjunct Assistant Professor, Department of Earth and Space Sciences, State University of New York, Stony Brook, New York; 1974-1976

ADDITIONAL PROFESSIONAL EXPERIENCE:

Director, Environmental Radioactivity Measurement Facility, Department of Oceanography, Florida State University; 1990-present.

Technical Advisor for Radiochemistry, Environmental Physics, Inc., General Engineering Laboratories, Charleston, S.C.; 1991-present.

Expert in Environmental Radioactivity, International Atomic Energy Agency (IAEA); Vienna, Austria, and Monaco (Marine Environmental Laboratory). Occasional missions.

Guest Instructor, Training Department, Canberra Industries, Inc.; courses instructed: Basic Alpha Spectrometry, Advanced Alpha Spectrometry; 1989-2000. Guest Instructor for Ortec Instruments, 2001-present.

New Zealand National Research Advisory Council (NRAC) Senior Fellowship - Institute of Nuclear Sciences, Wellington, New Zealand (Jan. - May, 1984).

PROFESSIONAL SERVICE:

Chair, Scientific Committee on Oceanic Research (SCOR) Working Group 112, "Groundwater Discharge to the Coastal Zone," 1997-2002. Working Group also co-sponsored by LOICZ (Land-Ocean Interaction in the Coastal Zone) and UNESCO's IOC (Intergovernmental Oceanographic Commission) and IHP (International Hydrological Program)

Vice-President, IUGG joint commission of the International Association of the Physical Sciences of the Ocean (IAPSO) and the International Association of Hydrologists (IAHS) on “Groundwater-Seawater Interactions,” 2001-2003.

Editorial Board, Biogeosciences, 2005-2007

Editorial Board, Journal of Environmental Radioactivity, 1998-2012

Participant (1978-83) and Co-Project Leader (1984-1988) of UNESCO-sponsored International Geological Correlation Program (IGCP) Project 156 (Phosphorites)

Part-time Administrative Judge, Atomic Safety and Licensing Board Panel” (ASLBP) of the Nuclear Regulatory Commission (NRC), 2006-present.

TEACHING:

Florida State University: OCE1001 “Elementary Oceanography”, OCE4011 “Principles of Oceanography”, OCC5050 “Basic Chemical Oceanography”, OCG5050 “Basic Geological Oceanography”, OCC5043 “Marine Isotopic Chemistry”, OCG5049 “Marine Mineral Resources”, OCC5059 “Techniques in Environmental Radioactivity”, OCC 5059r “Environmental Radioactivity”

International Training Workshops on Marine Minerals; Environmental Radioactivity: Thailand (1985), Brazil (1989), Chile (1990), United Kingdom (1992), Turkey (1996), Belgium (1997), United Kingdom (2002), Costa Rica (2003), Thailand (2005, 2006).

SPECIAL PUBLICATION PROJECTS:

- 1) Burnett, W.C., and P.N. Froelich (eds.), 1988. Special Issue of Marine Geology on phosphorites--R/V CONRAD cruise, “Peru Shelf Geochemistry,” v. 80, 181-343.
- 2) Burnett, W.C., and S.R. Riggs (eds.), 1990. Phosphate Deposits of the World, V. III: Neogene to Modern Phosphorites . Cambridge University Press, 464 p.
- 3) Burnett, W.C. and H.M. Fernandes (eds.), 2001. Special Issue of the Journal of Environmental Radioactivity, “Natural Radioactivity: Technological Enhancement, Detection and Migration,” v. 54, 199 p.
- 4) Burnett, W.C., J.P. Chanton, and E. Kontar (eds.), 2003. Special Issue of Biogeochemistry, “Submarine Groundwater Discharge,” v. 66, 202 p.
- 5) Povinec, P., W.C. Burnett, and J. Oliveira (eds.), 2008. Special Issue of Estuarine, Coastal and Shelf Science, “Groundwater Discharge Studies in Southeastern Brazil,” v. 76, 87 p.
- 6) Taniguchi, M., W.C. Burnett, and G. Ness (eds.), 2009. Special Issue of Science of the Total Environment, “Human Impacts on Urban Subsurface Environments,” v. 407 (9), 165 p.
- 7) Taniguchi, M., W.C. Burnett, Y. Fukushima, M. Haigh, Y. Umezawa (eds.), 2009. “From Headwaters to the Ocean: Hydrological Changes and Watershed Management,” Taylor & Francis Group, London, 679 p.

PUBLICATIONS IN PEER-REVIEWED JOURNALS AND BOOKS

1. Veeh, H.H., W.C. Burnett, and A. Soutar, 1973. Contemporary phosphorites on the continental margin of Peru. Science, 181, 844-845.
2. Burnett, W.C., 1975. Trace element geochemistry of biogenic sediments from the western equatorial Pacific. Pacific Science, 29, 219-225.
3. McMurtry, G.M. and W.C. Burnett, 1975. Hydrothermal metallogenesis in the Bauer Deep of the south-eastern Pacific. Nature, 254, 42-44.
4. Burnett, W.C., and M.E. Morgenstein, 1976. Growth rates of Pacific manganese nodules as deduced by uranium-series and hydration-rind dating techniques. Earth and Planetary Science Letters, 33, 208-218.
5. Burnett, W.C., and D.N. Gombert, 1977. Uranium oxidation and probable subaerial weathering of phosphatized limestone from the Pourtales Terrace. Sedimentology, 24, 291-302.
6. Burnett, W.C., and H.H. Veeh, 1977. Uranium-series disequilibrium studies of phosphorite nodules from the west coast of South America. Geochimica et Cosmochimica Acta, 41, 755-764.
7. Burnett, W.C., and D.Z. Piper, 1977. Rapidly-formed ferromanganese deposit from the Hess Deep, eastern Pacific. Nature, 265, 596-600.
8. Burnett, W.C., 1977. Geochemistry and origin of phosphorite deposits from off Peru and Chile. Geological Society of American Bulletin, 88, 813-823.
9. Veeh, H.H., and W.C. Burnett, 1978. Uranium-series dating of insular phosphorite from Ebon Atoll, Micronesia. Nature, 275, 460-462.
10. Burnett, W.C., and A.I.N. Lee, 1980. The phosphate supply system in the Pacific. Special issue of Geojournal on "Resources of the Tropical Pacific," 4, 423-436.
11. Cook, P.J., J.H. Shergold, R.P. Sheldon, A.J.G. Notholt, and W.C. Burnett, 1980. Phosphorites and world phosphate resources. Nature and Resources, 16, 26-30.
12. Burnett, W.C., and O.A. Schaeffer, 1980. Effects of ocean dumping on carbon isotope ratios in marine sediments from the New York Bight. Estuarine and Coastal Marine Science, 11, 605-611.
13. Burnett, W.C., H.H. Veeh, and A. Soutar, 1980. U-series, oceanographic, and sedimentary evidence in support of contemporary formation of phosphate nodules off Peru. SEPM Special Publication 29, 61-71.
14. Burnett, W.C., 1980. Apatite-glaucinite associations off Peru and Chile: Paleo-oceanographic implications. Journal Geological Society of London, 137, 757-764.
15. Burnett, W.C., and G.T. Mitchum, 1981. Proton induced X-ray emission (PIXE) analysis of marine particulates. Nuclear Instr. Methods, 181, 231-238.
16. Wolgemuth, K.M., W.C. Burnett, and P. Laranjeira de Moura, 1981. Oceanography and suspended matter in Baía De Todos Os Santos, a Brazilian estuary. Revista Brasileira de Geociencias, 11, 172-178.
17. Burnett, W.C., M.J. Beers, and K.K. Roe, 1982. Growth rates of ocean floor phosphate nodules from the continental margin of Peru. Science, 215, 1616-1618.

18. Veeh, H.H. and W.C. Burnett, 1982. Carbonate and phosphate sediments. In: Uranium-Series Disequilibrium: Application to Environmental Problems, M. Ivanovich and R.S. Harmon, eds., Oxford University Press, 459-480.
19. Roe, K.K., W.C. Burnett, K.H. Kim, and M.J. Beers, 1982. Excess protactinium in phosphate nodules from a coastal upwelling zone. Earth and Planetary Science Letters, 60, 39-46.
20. Jahnke, R., S. Emerson, K.K. Roe, and W.C. Burnett, 1983. The present day formation of apatite in Mexican continental margin sediments. Geochimica et Cosmochimica Acta, 47, 259-266.
21. Burnett, W.C., K.K. Roe, and D.Z. Piper, 1983. Upwelling and phosphorite formation in the ocean. NATO Advanced Research Institute "Coastal Upwelling: Its Sediment Record" (Vilamoura, Portugal, 1981), Plenum Publishing Corp., New York, 377-398.
22. Birch, G.F., J. Thomson, J. McArthur, and W.C. Burnett, 1983. Pleistocene phosphorites off the West Coast of South Africa. Nature, 302, 601-603.
23. Roe, K.K., W.C. Burnett, and A.I.N. Lee, 1983. Uranium disequilibrium dating of phosphate deposits from the Lau Group, Fiji. Nature, 302, 603-606.
24. Froelich, P.N., K.H. Kim, R. Jahnke, W.C. Burnett, A. Soutar and M. Deakin, 1983. Pore water fluoride in Peru continental margin sediments: uptake from seawater. Geochimica et Cosmochimica Acta, 47, 1605-1612.
25. Kim, K.H. and W.C. Burnett, 1983. Gamma-ray spectrometric determination of uranium-series nuclides in marine phosphorites. Analytical Chemistry, 55, 1796-1800.
26. Thomson, J., S.E. Calvert, S. Mukherjee, W.C. Burnett, and J.M. Bremner, 1984. Further studies of the nature, composition, and ages of contemporary phosphorite from the Namibian Shelf. Earth and Planetary Science Letters, 69, 341-353.
27. Kim, K.H., and W.C. Burnett, 1985. ^{226}Ra in phosphate nodules from the Peru/Chile seafloor. Geochimica et Cosmochimica Acta, 49, 1073-1081.
28. Cunningham, R. and W.C. Burnett, 1985. Amino acid biogeochemistry and dating of offshore Peru/Chile phosphate nodules. Geochimica et Cosmochimica Acta, 49, 1413-1419.
29. Roe, K.K. and W.C. Burnett, 1985. Uranium geochemistry and dating of Pacific island apatite. Geochimica et Cosmochimica Acta, 49, 1581-1592.
30. Sheldon, R.P., D.F. Davidson, S.R. Riggs, and W.C. Burnett, 1985. Undiscovered phosphate resources in the Caribbean region and their potential value for agricultural development. U.S. Geological Survey Circular 962, 26 p.
31. Kim, K.H. and W.C. Burnett, 1986. Growth history of a Quaternary phosphatic crust from the Peruvian continental margin. Chemical Geology (Isotope Geoscience Section), 58, 227-244.
32. Burnett, W.C. and K.H. Kim, 1986. Comparison of radiocarbon and uranium-series dating methods as applied to marine apatite. Quaternary Research, 25, 369-379.
33. Burnett, W.C., 1986. Phosphorites in the U.S. Exclusive Economic Zone. In: The Exclusive Economic Zone--Exploring the New Ocean Frontier, Washington, D.C. U.S. Department of Commerce NOAA, 135-140.
34. Cullen, D.J. and Burnett, W.C., 1986. Phosphorite associations on seamounts in the tropical southwest Pacific Ocean. Marine Geology, 71, 215-236.

35. Burnett, W.C., D.J. Cullen, and G.M. McMurty, 1987. Open-ocean phosphorite-- In a class by themselves? In: "Marine Minerals:Resource Assessment Strategies", P.G Teleki, M.R. Dobson, J.R. Moore and U.von Stackelberg, eds. D.Reidel publishing Co., Holland, 119-131.
36. Cowart, J.B., W.C. Burnett, P.A. Chin, and K. Harada, 1987. Occurrence of ^{210}Po in natural waters in Florida. Environmental Health, 21, 172-184.
37. Cullen, D.J., Burnett, W.C., 1987. 'Insular' Phosphorite on Submerged Atolls in the Tropical Southwest Pacific. Search, 18, 311-313.
38. Burnett, W.C., J.B. Cowart, and P.A. Chin, 1987. Polonium in the surficial aquifer of west central Florida. In: Radon, Radium and Other Radioactivity in Ground Water: Hydrogeologic Impact and Application to Indoor Airborne Contamination. Lewis Publ., (ed.B. Graves), 251-269.
39. Burnett, W.C., and P.N. Froelich, 1988. Preface to special volume on phosphorites--R/V CONRAD cruise, "Peru Shelf Geochemistry". Marine Geology, 80, iii-vi.
40. Kim, K.H., and W.C. Burnett, 1988. Accumulation and biological mixing of Peru margin sediments. Marine Geology, 80, 181-194.
41. Baker, K.B. and W.C. Burnett, 1988. Distribution, texture, and composition of modern phosphate pellets in Peru shelf muds. Marine Geology, 80, 195-214.
42. Burnett, W.C., K.B. Baker, P. Chin, W. McCabe, and R. Ditchburn, 1988. Uranium-series and AMS ^{14}C studies of modern phosphatic pellets from Peru shelf muds. Marine Geology, 80, 215-230.
43. Piper, D.Z., P.A. Baedeker, J.G. Crock, W.C. Burnett, and B.J. Loebner, 1988. Rare earth elements in phosphatic enriched sediment of the Peru shelf. Marine Geology, 80, 269-286.
44. Glenn, C.R., M.A. Arthur, H.W. Yeh, and W.C. Burnett, 1988. Carbon isotopic composition and lattice-bound carbonate of Peru-Chile margin phosphorites. Marine Geology, 80, 287-308.
45. Froelich, P.N., M.A. Arthur, W.C. Burnett, M. Deakin, V. Hensley, R. Jahnke, L. Kaul, K.H. Kim, K. Roe, A. Soutar, and C. Vathakanon, 1988. Early diagenesis of organic matter in Peru continental margin sediments: phosphorite precipitation. Marine Geology, 80, 309-343.
46. Sheldon, R.P., W.C. Burnett, and V.R. Ricalde, 1989. Geologic occurrence, paleogeography and resources of phosphate rock in the Andean region. In: Ericksen, G.E., Canas Pinochet, M.T. and Reinemund, J.A., editors, Geology of the Andes and its Relation to Mineral and Energy Resources, Circum-Pacific Council of Energy and Mineral Resources Earth Science Series, v. 11.
47. Harada, K., W. Burnett, J.B. Cowart, and P.A. LaRock, 1989. Polonium in Florida groundwater and its possible relationship to the sulfur cycle and bacteria. Geochimica et Cosmochim. Acta., 53, 143-150.
48. Narita, H., K. Harada, and W.C. Burnett, 1989. Determination of ^{210}Pb , ^{210}Bi , and ^{210}Po in natural waters and other materials using electrochemical separation. Talanta, 36, 925-929.
49. Burnett, W.C., W.M. Landing, W.B. Lyons, and W. Orem, 1989. Jellyfish Lake, Palau: a model anoxic environment for geochemical studies. EOS, 70, 777-779.

50. Burnett, W.C., and S.R. Riggs (eds.), 1990. Phosphate Deposits of the World, V. III: Neogene to Modern Phosphorites. Cambridge University Press, 464 p.
51. Burnett, W.C., 1990. Phosphorite growth and sediment dynamics in the modern Peru shelf upwelling system. In: Phosphate Deposits of the World, V. III: Neogene to Modern Phosphorites (eds. W.C. Burnett and S.R. Riggs), Cambridge University Press, 62-72.
52. Wang, C.H. and W.C. Burnett, 1990. Holocene mean uplift rates across an active plate collision boundary in Taiwan. Science, **248**, 204-206.
53. Heggie, D.T., G.W. Skyring, G.W. O'Brien, C. Reimers, A. Herczeg, D. J. Moriarty, W.C. Burnett, and A.R. Milnes, 1990. Organic carbon cycling, and modern phosphorite formation on the East Australian continental margin: an overview. In: IGCP Phosphorites -- A Decade of Research and Development. Jour. Geol. Soc. London, Spec. Publ. No. 52, (eds. A. Notholt and I. Jarvis), 87-117.
54. Cook, P.J., J.H. Shergold, W.C. Burnett, and S.R. Riggs, 1990. Phosphorite research: an historical overview. In: IGCP Phosphorites -- A Decade of Research and Development. Jour. Geol. Soc. London, Spec. Publ. No. 52 (eds. A. Notholt and I. Jarvis), 1-22.
55. Burnett, W.C., J.B. Cowart, and S. Deetae, 1990. Radium in the Suwannee River and estuary: spring and river input to the Gulf of Mexico. Biogeochemistry, **10**: 237-255.
56. Landing, W.M., W.C. Burnett, W.B. Lyons, and W. Orem, 1991. Nutrient cycling and the biogeochemistry of manganese, iron and zinc in Jellyfish Lake, Palau. Limnology and Oceanography, **36**, 515-525.
57. Orem, W.H., W.C. Burnett, W.M. Landing, W.B. Lyons, W. Showers, 1991. Jellyfish Lake, Palau: early diagenesis of organic matter. Limnology and Oceanography, **36**, 526-543.
58. Rao, V.P., and W.C. Burnett, 1992. Phosphatic rocks and manganese crusts from seamounts in the EEZ of Kiribati and Tuvalu, Central Pacific Ocean. In: Geology and Offshore Mineral Resources of the Central Pacific Basin. Springer-Verlag, Berlin (eds. B. H. Keating and B.R. Bolton), 285-296.
59. Burnett, W.C. and H.H. Veeh, 1992. Uranium-Series Studies of Marine Phosphates and Carbonates. In: Uranium-Series Disequilibrium: Applications to Earth, Marine, and Environmental Sciences (2nd Edition). Oxford University Press (eds. M. Ivanovich and R.S. Harmon), chapter 14, 487-512.
60. Burnett, W.C., W.H. Berger, J. Boulegue, W. Bruckmann, J.R. Cann, I.N. McCave, J.A. McKenzie, M. Schluter, M. Sibuet, H. Thiel, and G. Wefer, 1992. How can we assess the likely impact of humans on the deep-sea floor? In: Use and Misuse of the Seafloor, (eds. K.J. Hsu and J. Thiede), Dahlem Workshop Reports, John Wiley & Sons, New York, 245-268.
61. Burnett, W.C. and W.-C. Tai, 1992. Determination of radium in natural waters by alpha liquid scintillation. Analytical Chemistry, **64**, 1691-1697.
62. Glenn, C.R., M.A. Arthur, J.M. Resig, W.C. Burnett, W.E. Dean, and J.A. Jahnke, 1994. Are modern and ancient phosphorites really so different? In: Siliceous, Phosphatic and Glauconitic Sediments of the Tertiary and Mesozoic, (ed. A. Iijima, A.M. Abed, and R.E. Garrison), VSP International Science Publ., 159-188.
63. Sherman, C.E., C.R. Glenn, A.T. Jones, W.C. Burnett, and H.P. Schwarcz, 1993. New evidence for two highstands of the sea during the last interglacial, oxygen isotope substage 5e. Geology, **21**, 1079-1082.

64. Bates, A.L., E.C. Spiker, W.H. Orem, and W.C. Burnett, 1993. Speciation and isotopic composition of sulfur in sediments from Jellyfish Lake, Palau. Chemical Geology, 106, 63-76.
65. Marcus, N.H., R. Lutz, W.C. Burnett, and P. Cable, 1994. Age, viability, and abundance of zooplankton resting eggs from an anoxic basin: evidence of an egg bank. Limnology and Oceanography, 39, 154-158.
66. Cowart, J.B., and W.C. Burnett, 1994. The distribution of uranium and thorium decay-series radionuclides in the environment - a review. Jour. Environmental Quality, 28, 651-662.
67. Jarvis, I., W.C. Burnett, Y. Nathan, F. Almbaydin, K.M. Attia, L.N. Castro, R. Flicoteaux, M.E. Hilmy, V. Hussain, A.A. Qutawna, A. Serjani, and Y.N. Zanin, 1994. Phosphorite geochemistry: state-of-the-art and environmental concerns. Eclogae Geologicae Helvetiae, 87, 643-700.
68. Cherrier, J., W.C. Burnett, and P.A. LaRock, 1995. Uptake of polonium and sulfur by bacteria. Geomicrobiology Journal, 13, 103-115.
69. Burnett, W.C., P.H. Cable, and J. P. Chanton, 1995. A simple passive collector for direct measurement of radon flux from soil. Jour. Radioanalytical Nuclear Chem., 193, 281-290.
70. Burnett, W.C., P.H. Cable, and R. Moser, 1995. Determination of radium-228 in natural waters using extraction chromatographic resins. Radioactivity & Radiochemistry, 6(3), 36-44.
71. Burnett, W.C. and C.-C. Yeh, 1995. Separation of protactinium from geochemical materials via extraction chromatography. Radioactivity & Radiochemistry, 6(4), 20-28.
72. Koskelo, M.J., W.C. Burnett, and P.H. Cable, 1996. An advanced analysis program for alpha-particle spectrometry. Radioactivity & Radiochemistry, 7(1), 18-27.
73. Burnett, W.C., M.K. Schultz, and C.D. Hull, 1996. Radionuclide flow during the conversion of phosphogypsum to ammonium sulfate. Jour. Environmental Radioactivity, 32, 33-52.
74. Cable, J., G. Bugna, W. Burnett, and J. Chanton, 1996. Application of ^{222}Rn and CH_4 for assessment of groundwater discharge to the coastal ocean. Limnology and Oceanography, 41, 1347-1353.
75. Hull, C.D. and W.C. Burnett, 1996. Radiochemistry of Florida phosphogypsum. Jour. Environmental Radioactivity, 32, 213-238.
76. Lyons, W.B., R.M. Lent, W.C. Burnett, P. Chin, W.M. Landing, W.H. Orem, and J.M. McArthur, 1996. Jellyfish Lake Palau: Regeneration of C, N, Si and P in anoxic marine lake sediments. Limnology and Oceanography, 41, 1394-1403.
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78. Schultz, M.K., W.C. Burnett, K.G.W. Inn, J.W.L. Thomas, and Z.-C. Lin, 1996. Partitioning of radioactive elements in NIST natural matrix standards. J. Res. Natl. Inst. Stand. Technol., 101, 707-715.
79. Bugna, G., J.P. Chanton, J.E. Young, W.C. Burnett, and P.H. Cable, 1996. The importance of groundwater discharge to the methane budgets of nearshore and continental shelf waters of the northeastern Gulf of Mexico. Geochim. Cosmochim. Acta, 60, 4735-4746.
80. Cable, J.E., W.C. Burnett, J.P. Chanton, and G. Weatherly, 1996. Modeling groundwater flow into the ocean based on ^{222}Rn . Earth Planet. Sci. Lett., 144, 591-604.

81. Cable, J., W.C. Burnett, J. Chanton, R. Corbett, and P. Cable, 1997. Field evaluation of seepage meters for coastal marine work. Estuarine, Coastal and Shelf Science, 45, 367-375.
82. Cable, J.E., W.C. Burnett, J.P. Chanton, 1997. Magnitudes and variations of groundwater seepage into shallow waters of the Gulf of Mexico. Biogeochemistry, 38, 189-205.
83. Corbett, D.R., W.C. Burnett, and P.H. Cable, 1997. Tracing of groundwater input into Par Pond, Savannah River Site by Rn-222. Jour. Hydrology, 203, 209-227.
84. Burnett, W.C., D.R. Corbett, M. Schultz, E.P. Horwitz, R. Chiarizia, M. Dietz, A. Thakkar, and M. Fern, 1997. Preconcentration of actinide elements from soils and large volume water samples using extraction chromatography. Jour. Radioanalytical & Nuclear Chemistry, 226, 121-127.
85. Schultz, M.K., W. C. Burnett, and K.G.W. Inn, 1998. Evaluation of a sequential extraction method for determining actinide fractionation in soils and sediments. Jour. Environmental Radioactivity, 40, 155-174.
86. Schultz, M.K., K.G.W. Inn, W.C. Burnett, and G. Smith, 1998. Geochemical partitioning of actinides using sequential chemical extractions: comparison to stable elements. Jour. Radioanalytical & Nuclear Chemistry, 234, 251-256.
87. Burnett, W.C., R. Wong, S.B. Clark, and B. Crandall, 1998. Direct counting of soil wafers — an improved total alpha/beta screening analysis. Jour. Radioanalytical & Nuclear Chemistry, 235, 173-178.
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89. Schultz, M., K.G.W. Inn, W. Burnett, G. Smith, S.R. Biegalski, and J. Filliben, 1998. Identification of radionuclide partitioning in soils and sediments: determination of best settings for the exchangeable fraction of the NIST standard sequential extraction protocol. Applied Radiation and Isotopes, 49, 1289-1293.
90. Dillon, K.S., D.R. Corbett, J.P. Chanton, W.C. Burnett, and D.J. Furbish, 1999. The use of sulfur hexafluoride (SF₆) as a tracer of septic tank effluent in the Florida Keys. Jour. Hydrology, 220, 129-140.
91. Corbett, D.R., J. Chanton, W. Burnett, K. Dillon, C. Rutkowski, and J. Fourqurean, 1999. Patterns of groundwater discharge into Florida Bay. Limnology and Oceanography, 44, 1045-1055.
92. Rutkowski, C.M., W.C. Burnett, R.L. Iverson, J.P. Chanton, 1999. The effect of groundwater seepage on nutrient delivery and seagrass distribution in the northeastern Gulf of Mexico. Estuaries, 22, 1033-1040.
93. Burnett, W.C. G. Schaefer, and M.K. Schultz, 1999. Fractionation of Ra-226 in Florida phosphogypsum. In: Environmental Radiochemical Analysis, (ed., G.W.A. Newton) Royal Society of Chemistry, Special Publication No. 234, 1-20.
94. Wong, R., W.C. Burnett, S.B. Clark, and B.S. Crandall, 1999. An improved assay for the determination of gross alpha and beta activities in soil via liquid scintillation counting. In: Environmental Radiochemical Analysis, (ed., G.W.A. Newton) Royal Society of Chemistry, Special Publication No. 234, 242-264.

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96. Burnett, W.C., C.R. Glenn, C.C. Yeh, M. Schultz, J. Chanton, and M. Kashgarian, 2000. U-series, ^{14}C , and stable isotope studies of Recent phosphatic "protocrusts" from the Peru margin. In: Marine Authigenesis: From Global to Microbial, (C.R. Glenn, L. Prevot-Lucas and J. Lucas, eds.), SEPM Special Publication No. 66, 163-183.
97. Dillon, K.S., D.R. Corbett, J.P. Chanton, W.C. Burnett, and L. Kump, 2000. Bimodal transport of a wastewater plume injected into saline ground water of the Florida Keys. Ground Water, 38, 624-634.
98. Corbett, D.R., L. Kump, K. Dillon, W. Burnett, and J. Chanton, 2000. Fate of wastewater-borne nutrients in the subsurface of the Florida Keys, USA, Marine Chemistry, 69, 99-115.
99. Corbett, D.R., K. Dillon, and W. Burnett, 2000. Tracing groundwater flow on a barrier island in the northeast Gulf of Mexico. Estuarine, Coastal, and Shelf Science, 51, 227-242.
100. Corbett, D.R., K. Dillon, W. Burnett, and J. Chanton, 2000. Estimating the groundwater contribution into Florida Bay via natural tracers ^{222}Rn and CH_4 . Limnology and Oceanography, 45, 1546-1557.
101. Kim, G., W.C. Burnett, and E.P. Horwitz, 2000. Efficient preconcentration and separation of actinide elements from large soil and sediment samples. Analytical Chemistry, 72, 4882-4887.
102. Burnett, W.C., J. Christoff, B. Stewart, T. Winters, and P. Wilbur, 2000. Reliable gross alpha/beta analysis of environmental samples via liquid scintillation counting. Radioactivity & Radiochemistry, 11, 26-44.
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