

## Curriculum Vitae

### Kevin Charles Antony Burke

#### Personal:

Born: November 13, 1929, London, England  
 Married, three children  
 Naturalized U.S. Citizen, January 1979  
 Address: Dept. Geosciences, rm #312 S&R 1, Univ. Houston, Houston Tx77204-5007  
 Tel: 713-743-3397.FAX: 713-748-7906 e-mail:kburke@uh.edu

#### Education:

Goldsmid Scholar of University College, London, 1948 -1951  
 Dept. Sci. & Indust. Research Studentship, University College London, 1951-1953  
 B.Sc. Special in Geology, 1951 (B.Sc. General level in Geology and Physics 1950)  
 Ph.D. University of London, 1953

#### Awards and Honors:

1975	Elected Fellow of the Geological Society of America
1995	24 <sup>th</sup> Du Toit Memorial Lecturer, Geological Soc. South Africa
2002-?	Honorary Professor, School of Geosciences. Univ. Witwatersrand
2004	Elected Fellow American Association for the Advancement of Science
2004	Career Contribution Award: Geological Society of America
2007	<b>Penrose medalist</b> <sup>1</sup> : Geological Society of America
2008	Special Session honoring "Kevin Burke" at the 31 <sup>st</sup> Annual International Geological Congress
2010-2011	Visiting Scientist Center for Advanced Studies Norwegian Academy of Sciences
2011	Best paper award Geophysical Society of South Africa " Kimberlites Sourced by Plumes from the Core- Mantle Boundary"

#### Professional Appointments:

1953-1956	Lecturer in Geology, University of Gold Coast, Africa
1956	Consultant, Geological Survey of Ghana
1954-1956	Geologist (Summer), Geological Survey of Ireland
1956-1960	Geologist and Senior Geologist, Atomic Energy Division,

---

<sup>1</sup> The Penrose Medal was established in 1927 to be awarded in recognition of eminent research in pure geology, for outstanding original contributions or achievements that mark a major advance in the science of geology. The award is made only at the discretion of the Council of the GSA, which interprets pure geology to apply to all scientific disciplines represented by the Society. Nominees, represented by the Council, may or may not be members of the Society, and may be from any nation. Penrose's sole objective in making the gift was to encourage original work in purely scientific geology. Scientific achievements should be considered rather than contributions in teaching, administration, or service.

	Geological Survey of Great Britain
1961-5	Senior Lecturer and Head, Geology Department, University of West Indies, Kingston, Jamaica
1965-1971	Professor of Geology, University of Ibadan, Nigeria
1972-1973	Visiting Professor of Geology, University of Toronto, Ontario, Canada
1973-1982	Professor of Geology and Chairman, Department of Geological Sciences, State University of New York at Albany
1982-1983	Deputy Director, Lunar and Planetary Science Institute
1983-1988	Director, Lunar and Planetary Science Institute
1983-present	Professor of Geology, Earth and Atmospheric Sciences Department, University of Houston

### **Concurrent Appointments:**

1976	Visiting Professor, California Institute of Technology
1977	Hill Family Visiting Professor, University of Minnesota (May-June)
1979	Visiting Professor, University of Calgary, Canada (March –April)
1982-1983	Distinguished Lecturer, American Association of Petroleum Geologist
1989-1992	Scholar-in-residence, National Academy of Science
1990-1992	Scholar-in-residence and Director, Board on Earth Sciences and Resources, National Research Council
1997	Visiting Scientist, Goddard Space Flight Center
1998	Distinguished Visiting Scientist, Jet Propulsion Laboratory
1998	Visiting Professor Earth & Space Sciences UCLA
1999	Guest Professor, ETH Zurich, Switzerland (May - August)
2000- 2004	Visiting Investigator, DTM, Carnegie Inst. Washington. DC
2004	Visiting Scientist Norwegian Geological Survey
2004-present	Crosby Lecturer, Earth, Atmospheric, and Planetary Dept. MIT

### **Editorial Activities**

1975-1985	Associate Editor, <u>Geology</u>
1977-1979	Associate Editor, <u>Journal of Geophysical Research</u>
1979-1981	Associate Editor, <u>EOS</u> (Transactions American Geophysical Union)
1979-2002	Associate Editor, <u>Tectonophysics</u>
1980-present	Member, Editorial Board <u>Journal of Geology</u>
1984-1986	Associate Editor, <u>Geological Society of America Bulletin</u>
1991-present	Associate Editor, <u>Ann. Rev. Earth &amp; Planetary Sciences</u>
1990-1995	Editor, <u>Tectonics</u>
1997-2006	Editor-in-Chief, <u>Journal of Asian Earth Sciences</u>

### **Professional Advisory Activities:**

1961	Advisor, Nuclear Raw Materials to the Government of the Republic of Korea, International Atomic Energy Agency
1974-1982	Consultant, Dobex and Globex International, Ltd.
1975-1985	Member, COCORP Interpretation Panel

1976-1979	Tectonic Team Leader, Lunar & Planetary Science Institute, Basaltic Volcanism Study Project
1978	Panelist, National Academy – Continental Drilling Project
1979-1983	Consultant, Exxon Production Research Company
1980-1981	Chairman, University Senate, State University of New York at Albany
1981-1983	Consultant, Globex International Consulting Associates
1982-1985	Member, NASA Space and Earth Science Advisory Committee
1984-1988	Member, NASA Earth System Sciences Committee
1984-2003	Member, Ocean Drilling Safety and Pollution Prevention Panel
1984-1988	Joint Chairman, Lunar and Planetary Science Conference
1985	Convener, NATO Advanced Study Institute “Tectonic Evolution of the Tethyan Regions”, Istanbul
1985-1988	Joint Chairman, Topographic Science Working Group NASA Land Processes Branch
1985	Convener, AGU Union Session “Where Are We Now on Iridium Anomalies, Extinctions, Impacts, Volcanism and Periodicity?”
1986-1987	Member, DOSECC Science Advisory Committee
1987-1991	Member, Global Change Committee, National Academy of Sciences
1992- 1995	President, Inter-Union Commission on the Lithosphere of the International Council of Scientific Unions
1996-2000	Chairman, Sci. Advis. Group. Intl. Contl. Sci Drilling Program
1996	Member, Board Directors of DOSECC (US Cont. Drilling Group)
2000	November Sheriff Lecturer Dept. Geosciences U. of Houston
2000	Convener, Session on Intra-continental basins Intl. Geol. Cong. Rio
	Convener, Session on Continental Scientific Drilling also at Rio.
2001-2004	Chmn elect, Chmn, retiring Chmn Geol. & Geog. Sect. AAAS

#### **Agency and Academy Reports:**

1985	Report by Committee on International Geology, Chairman C. Burchfield, NRC/NAS
1986	Report on Research and Analysis in the Sciences and Application Directorate of NASA, Chairman of Committee
1987	The Crisis in Space and Earth Science: A Time for a new commitment. Space and Earth Science Advisory Committee of the Council NASA, Washington, DC
1987	Committee on Earth Science of the Space Studies Board of the NRC/NAS
1988	Report by Committee on Global Change for the International Geosphere-Biosphere Program, NRC/NAS
1987	Report by Earth System Science Committee of the NASA

	Science Advisory Committee
1987	Topographic Science Working Group report to the Land Processes Branch, Earth Science and Applications Division, NASA Headquarters, Chairman of Committee(Recommended SRTM)
1993	Solid Earth Sciences and Society NRC/NAS
1995	Swedish Research in the Earth Sciences NFR Stockholm
1998	Work of the NFR and it's Councils NFR Stockholm

**Professional Societies:**

Geological Society of London  
 Geological Society of America  
 American Geophysical Union  
 American Association of Petroleum Geologists  
 Nigerian Mining Geological and Metallurgical Society  
 Nigerian Assoc. Petroleum Explorationists  
 Houston Geological Society

**Recently Supervised Ph.D. Students and some of their current activities:**

Tom Bjorklund (2001) Part-time Consulting Geologist, Houston, Texas

Armando Altamira (2009) Pemex Research Institute, Mexico City, Mexico

**Publications (excludes abstracts after 1972):**

1. 1955 McKie, D., and **Burke, K.**, Geology of the Islands of South Connemara: Geol. Mag., v. 92, p. 487-498.
2. 1955 McCallien, W.J., and **Burke, K.**, Note on the relative ages of certain Pre-Cambrian Formations in the Gold Coast: Jour. West Afr. Sci. Assoc., v. 1, p. 75.
3. 1957 **Burke, K.**, An outline of the structure of the Galway granite: Geol. Mag., v. 94, p. 452-464.
4. 1957 McCallien, W.J., and **Burke, K.**, Geology of the coastal region near Accra: Jour. West Afr. Sci. Assoc., v. 3, p. 79-90.
5. 1959 **Burke, K.**, Replacement veins in the Dahomeyan of Ghana: Geol. Mag., v. 96, p.353-360.

6. 1960 Bowie, S.H.U., Bisby, H., **Burke, K.**, and Hales, F., Electronic instruments for detecting and assaying Beryllium ores: Trans. Inst. Min. and Met., v. 69, p. 345-359.
7. 1960 **Burke, K.**, Tongjum uranium deposit: Bull. Geol. Surv. Korea, v. 4, p. 152-155.
8. 1960 **Burke, K.**, Ore mineral zones related to granite in South Korea: Bull. Geol. Surv. Korea, v. 4, p. 1141-151.
9. 1961 **Burke, K.**, Nuclear raw material prospecting in Korea: Intern'l Atomic Energy Agency Tech. Assistance Rept. No. 7.
10. 1963 **Burke, K.**, Dissolved gases in East African lakes: Nature, v. 198, p. 568-569
11. 1963 Chubb, L.J., and **Burke, K.**, Age of the Jamaican granodiorite: Geol. Mag., v. 100, p. 524-532.
12. 1963 **Burke, K.**, and Robinson, E., Age of the gypsum in Jamaica: Caribbean Jour. Sci., v. 4, p. 237-242.
13. 1963 **Burke, K.**, Reply to H. Tazieff on Dissolved gases in East African lakes: Nature, v. 200, p. 1308.
14. 1963 **Burke, K.**, Age relations of the Connemara migmatites and the Galway granite: Geol. Mag., v. 100, p. 470-471.
15. 1964 **Burke, K.**, Metamorphosed dykes in the central inlier of Jamaica: Jour. Geol. Soc. Jamaica, v. 6, p. 46-47.
16. 1964 **Burke, K.**, Review of mechanisms of hard tissue destruction, ed. R.F. Soggnæs: Geol Mag., v. 101, p. 287.
17. 1964 **Burke, K.**, Cunningham, M., Gallagher, M., and Hawkes, J., Beryl in the Rosses granite, N.W. Ireland: Econ. Geol., v. 59, p. 1539-1550.
18. 1965 **Burke, K.**, and Robinson, E., Sedimentary structures in the Wagwater belt, Eastern Jamaica: Jour. Geol. Soc. Jamaica, v. 7, p. 1-10.
19. 1966 Goreau, T., and **Burke, K.**, Pleistocene and Holocene geology of the Kingston Harbor, Jamaica: Marine Geology, v. 4, p. 207-225.
20. 1966 **Burke, K.**, Review of a new geological map of Nigeria: Jour. Mining and Geol. of the Nig. Min. Geol. And Met. Soc., v. 2, p. 32-34.

21. 1967 **Burke, K.**, The Yallahs Basin, a sedimentary basin southeast of Kingston, Jamaica: Marine Geology, v. 5, p. 45-60.
22. 1967 **Burke, K.**, Review of mineral resources of Africa. De Kun: Jour. Mining and Geol. Of the Nig. Min. Geol. And Met. Soc., v. 2, p. 70.
23. 1968 **Burke, K.**, Drowned dwarf atolls south of Jamaica? Bull. Amer. Association Petroleum Geologists, v. 52, p. 348-350.
24. 1968 **Burke, K.**, Robinson, E., and Coates, A.G., The geology of the Benbow inlier, Jamaica: Trans. 4<sup>th</sup> Carib. Geol. Conf., Trinidad 1965, p. 299-307.
25. 1969 **Burke, K.**, and Freeth, S.J., A rapid method for the determination of size, shape and sphericity of gravel fragments: Jour. Sed. Pet., v. 39, p. 797-798.
26. 1969 **Burke, K.**, Seismic areas of Guinea Coast where Atlantic fracture zones reach Africa: Nature, v. 222, p. 655-657.
27. 1969 **Burke, K.**, The Akwapim Fault, a recent fault in Ghana: Jour. Of Mining and Geol. of the Nig. Min. Geol. And Met. Soc., v. 4, p. 29-38.
28. 1969 Bradshaw, R., Leake, B.E., **Burke, K.**, and Plant, A.G., The Oughterard, Granite Co., Galway, Ireland: Proc. Roy. Irish Academy, v. 68B, p. 39-65
29. 1969 Grant, N.K., Rex, D.C., **Burke, K.**, and Freeth, S.J., The geological sequence and geochronology of old basement rocks from Ibadan, Nigeria: Ann. Fac. Sci. Clermont Ferrand No. 41, Geol. Et Min., v. 19, p. 84.
30. 1969 **Burke, K** , The structure of the Guinea Coast: Jour. Mining and Geol. of the Nigerian Min. Geol. And Met. Soc., v. 4, p. 115-116.
31. 1969 **Burke, K.**, Durotoye, ‘Bisi, Reingold, Judith and Shaw, Thurstan, Late Pleistocene and Holocene deposits at Odo Ogun: Jour. Min. and Geol. of Nig. Min. Geol. And Met. Soc., v. 4, p. 115.
32. 1969 **Burke. K.**, Freeth, S.J., and Grant, N.K., Granite gneiss of two billion year age from Ibadan, Nigeria: Jour. Mining and Geol. Of the Nig. Min. Geol. And Met. Soc., v. 4, p. 117.
33. 1969 **Burke, K.**, and Durotoye, ‘Bisi, “Variation Climatique du Quaternaire au s.o. du Nigeria”: VIIIe INQUA Paris, Resumes, p. 7.

34. 1970 **Burke, K** , An outline of the stratigraphy of the Quaternary superficial deposits of Ibadan, in Stratigraphy, An Interdisciplinary Symposium: Occas. Publ. 19, Inst. Afr. Studies, U. Ibadan, p. 45-46.
35. 1970 **Burke, K.**, and Durotoye, 'Bisi, Boulder slide at Imessi-Ile: Center for Short Lived Phenomena, Smithsonian Institution, Event Report 781.
36. 1970 **Burke, K.**, and Durotoye, 'Bisi, Late Quaternary climatic variations in Southwestern Nigeria, evidence from pediments and pediment deposits: Bull. D'Asequa, v. 25, p. 79-96.
37. 1970 **Burke, K.**, and Durotoye, 'Bisi, Boulder slide on an Inselberg in the Nigerian Rain Forest: Jour. Geol., v. 78, p. 733-735.
38. 1970 **Burke, K.**, and Durotoye, 'Bisi, The Quaternary in Nigeria: a review: Bull. D'Asequa, v. 27, p. 70-98 (also in Bull. D'Ifan).
39. 1971 **Burke, K.**, and Durotoye, 'Bisi, and Whiteman, Arthur, Dry period south of Sahara 20,000 yrs ago: West Afr. Jour. Arch., v. 1, p. 1-8
40. 1971 **Burke, K** , Late Quaternary subsidence in the Niger delta, sea level rise and isostatic adjustment to waterload (abstract): Jour. Min. Geol., Nigerian Min. Geol. Met. Soc., v. 6, p. 75
41. 1971 **Burke, K.**, and Dewey, J., The lost oceans of Africa (abstract): Jour. Min. Geol., Nigerian Min. Geol. Met Soc., v. 6, p. 7
42. 1971 **Burke, K.**, and Whiteman, Arthur, The geological history of the Gulf of Guinea (abstract): Jour. Min. Geol., Nigerian Min. Geol. Soc., v. 6, p. 75
43. 1971 **Burke, K.**, Recent faulting near the Volta dam: Nature, v. 231, p. 439-440.
44. 1971 **Burke, K.**, Dessauvage, T.F.J., and Whiteman, A.J., The opening of the Gulf of Guinea and the geological history of the Benue Trough and Niger delta: Nature Phys. Sci., v. 233, p. 51-55.
45. 1971 Dessauvage, T.F.J., and **Burke, K.**, Geological map at 1:250,000 of Yola sheet Nigeria (1 sheet): Univ. Ibadan, Nigeria.
46. 1971 **Burke, K.**, Longshore drift and submarine canyons in the development of the Niger delta: Abstract VIII, Int. Sedimentological Conf. Heidelberg.
47. 1971 **Burke, K.**, and Durotoye, 'Bisi, Geomorphology and superficial deposits related to Late Quaternary climatic variation in Southwestern Nigeria: Zeits. F. Geomorphologie, v. 15, p. 430-444.

48. 1972 **Burke, K.**, Southern Nigerian soils and geomorphology related to climatic change: West Afr. Jour. Arch., v.2, p. 122-127.
49. 1972 **Burke, K.**, and Whiteman, A.J., Uplift, rifting and the break-up of Africa (abstract): EOS Trans. Amer. Geophys. Union, v.53, p.517.
50. 1972 **Burke, K.**, Grant, N.K., and Freeth, S.J., Granite gneiss from partial fusion of banded gneiss (abstract): Proc. Ibadan Conf. on African Geol., December 1970, p.103-104.
51. 1972 **Burke, K.**, Dessauvage, T.F.J., and Whiteman, A.J., Geological History of the Benue Trough: Proc. Ibadan Conf. on African Geol., December 1970, p. 187-206.
52. 1972 Ajakaiye, D.E., and **Burke, K.**, Bouguer Gravity map of Nigeria at 1:2 million: compiled for the Nigerian Upper Mantle Project 1970.
53. 1972 **Burke, K.**, Longshore drift, submarine canyons and submarine fans in development of the Niger delta: Bull. Amer. Assoc. Petrol Geologists, v.56, p. 1975-1983.
54. 1972 **Burke, K.**, and Dewey, J.F., Orogeny in Africa: Proc. Ibadan Conf. on African Geol., December 1970, p.583-608.
55. 1972 **Burke, K.**, and Wilson, J.T., Is the African plate stationary? Nature v. 239, p. 387-390.
56. 1972 Wilson, J.T., and **Burke, K.**, Two types of mountain building: Nature, v. 239, p. 448-449.
57. 1972 Dewey, J.F., and **Burke, K.**, Permable, metastable and plate tectonic regimes in the Precambrian: Abstracts with Programs, Geol. Soc. American Ann. Mtg., v.4, p.462.
58. 1972 **Burke, K.**, and Durotoye, A.B., The Quaternary in Nigeria: Proc. Ibadan Conf. on African Geol. 1970, p.325-348.
59. 1973 Ajakaiye, D.E., and **Burke, K.**, A Bouguer anomaly map of Nigeria: Tectonophysics, v. 16, p.103-115.
60. 1973 **Burke, K.**, and Waterhouse, J.B., Saharan glaciation dated in North America: Nature, v. 241, p. 267.



61. 1973 **Burke, K.**, Kidd, W.S.F., and Wilson, J.T., Plumes and concentric plume traces of the Eurasian plate: Nature Phys. Sci., v. 241, p.128-129.
62. 1973 **Burke, K.**, and Whiteman, A.J., Uplift, rifting and the breakup of Africa, in Proceedings NATO Conference on Continental Drift, v. 2, Newcastle, April 1972, Tarling, D.H., ed., p. 735-745.
64. 1973 **Burke, K.**, and Dewey, J.F., Plume generated triple junctions: Key indicators in applying plate tectonics to old rocks: Jour. Geol., v.81, p. 406-433.
65. 1973 Dewey, J.F., and **Burke, K.**, Tibetan, Variscan and Precambrian basement reactivation: products of continental collision: Jour. Geol., V.81, p. 683-692.
66. 1973 **Burke, K.**, Kidd, W.S.F., and Wilson, J.T., Relative and latitudinal motion of Atlantic hot spots: Nature, v. 245, p. 133-137.
67. 1974 Hoffman, P., Dewey, J.F., and **Burke, K.**, Aulacogens and their genetic relation to geosynclines, in Dott R.H., ed., Modern and Ancient Geosynclinal Sedimentation, SEPM Publications, No. 19, p. 38-55.
68. 1974 Dewey, J.F., and **Burke, K.**, Two plates in Africa during the Cretaceous: Nature, v.249, p. 313-316.
69. 1974 **Burke, K.**, and Dewey, J.F., Hot spots and continental breakup: implications for collisional orogeny: Geology, v. 2, p. 57-60.
70. 1975 **Burke, K.**, and Kidd, W.S.F., Earth, heat flow in: Yearbook of Science and Technology, p. 165-168. McGraw-Hill
71. 1975 **Burke, K.**, Atlantic evaporite basins formed by evaporation of water spilled from Pacific, Tethyan, and Southern oceans; Geology, v.3, p. 613-616.
72. 1975 **Burke, K.**, Petroleum and global Tectonics, Fischer, A.G., and Judson, S., eds : Amer. Jour. Sci., v. 276, No.3, p. 398-400-(Review).
73. 1976 **Burke, K.**, Dewey, J.F., and Kidd, W.S.F., Dominance of horizontal movements, arcs and microcontinental collisions during the later Per-mobile regime, in: Windley, B.F., ed., The Early History of the Earth: John Wiley and Sons, p. 113-130.

74. 1976 **Burke, K.**, and Wilson, J.T., Hot spots on the earth's surface: Scientific American, v.235, No. 2, p. 46-60.
75. 1976 **Burke, K.**, Dewey, J.F. and Kidd, W.S.F., Precambrian palaeomagnetic results compatible with contemporary operation of the Wilson cycle Tectonophysics, v. 33, p. 287-299.
76. 1976 Freeth, S.J., Grant, N.K. and **Burke, K.**, The structure and sequence of geological events in the basement complex of the Ibadan area, western Nigeria: Precambrian Research, v. 3, p.537-545.
77. 1976 **Burke, K.**, Development of grabens associated with the initial ruptures of the Atlantic Ocean: Tectonophysics, v. 36, p. 93-112.
78. 1976 **Burke, K.**, The Chad Basin: an active intra-continental basin: Tectonophysics, v. 36, p. 198-206.
79. 1976 **Burke, K.**, Neogene and Quaternary tectonics of Nigeria, In *Geology of Nigeria*, ed., C.A. Kogbe, pp. 363-369, Elizabethan Publ. Company Suruleere, Nigeria.
80. 1977 **Burke, K.**, Dewey, J.F. and Kidd, W.S.F., World distribution of sutures – the sites of former oceans: Tectonophysics, v. 40, p.69-99.
81. 1977 **Burke, K.**, Diverse geology of Atlantic- type continental margins and some possible implications for U.S. Offshore Atlantic: Ninth Annual Offshore Technology Conference, 1977 Proceedings, v. III, p. 77-84.
82. 1977 **Burke, K.**, Aulacogens and continental breakup: Ann. Rev. Earth Planet. Sci., v. 5, p. 371-396.
83. 1977 **Burke, K.** and Fox, P.J. (eds.), Caribbean Problems: a report on a workshop on geological problems related to the evolution of the Caribbean: Albany, New York, April 20-23, 1977.
84. 1977 **Burke, K.** and Molnar, P., Erik Norin Penrose Conference on Tibet: Geology, v. 5, p. 461-463.
85. 1978 Sengor, A.M. Celal, **Burke, K.**, and Dewey, John, F., Rifts at high angles to orogenic belts: tests for their origin and the upper Rhine graben as an example: Amer. Jour. Sci., v. 278, p. 24-40.
86. 1978 **Burke, K.** and Kidd, W.S.F., Were Archean continental geothermal gradients much steeper than those of today? Nature, v. 272, p. 240.

87. 1978 Hays, J.D., **Burke, K.**, and Sclater, J., An integrated approach to Atlantic margin studies: in Proc. Offshore Technology Conf., Dallas, Texas, May 8-11, 1978.
88. 1978 **Burke, K.** and Sengor, A.M.C., Relative timing of rifting on earth and its tectonic implications: Geophys. Res. Letters, v.5, p. 419-421.
89. 1978 **Burke, K.**, Evolution of continental rift systems in the light of plate tectonics: in Ramberg, I.B. and Neumann, E.R., eds. Tectonics and Geophysics of Continental rifts, D. Reidel Pub. Co., Dordrecht, p. 1-9.
90. 1978 **Burke, K.**, Fox, P.J. and Sengor, A.M.C., Buoyant ocean floor and the evolution of the Caribbean: Jour. Geophys. Res., v.83, p. 3949-3954.
91. 1978 **Burke, K.**, Turcotte, D.L., Global sea-level changes and the thermal structure of the Earth: Earth Planet. Sci. Letters, v.41, p. 341-346.
92. 1979 **Burke, K.**, McGetchin, T.R., Thompson, G. and Young, R., Plateau uplift: mode and mechanism: EOS, v.60, p. 64-67.
93. 1979 **Burke, K.** and Sengor, A.M.C., Comments on: Why I do not accept plate tectonics: EOS, v. 70, p. 207-211.
94. 1979 **Burke, K.**, Thiessen, R. and Kidd, W.S.F., African hotspots and their relation to the underlying mantle, Geology, v. 7, p. 263-266.
95. 1979 **Burke, K.**, The edges of the ocean: an introduction. In: Oceanus, v.22, No. 3, *Ocean/continent Boundaries*, p. 2-9.
96. 1979 **Burke, K.** and Sengor, A.M.C., Review of plate tectonics, Reviews of Geophysics and Space Physics, 17, p. 1018-1024.
97. 1980 **Burke, K.**, Intracontinental rifts and aulacogens in Continental Tectonics National Academy, Geophysics Research Board, p.42-49.
98. 1980 **Burke, K.**, and Sawkins, F.J., Extensional tectonics and mid-Paleozoic massive sulfide occurrences in Europe, Geol. Rundsch.69, 349-360.
99. 1980 **Burke, K.**, and Kidd, W.S.F., Volcanism on Earth through time. In the continental crust and its mineral deposits, Geol. Assoc. Canada Spec. Paper 20, 503-522.
100. 1980 **Burke, K.**, Grippi, J., and Sengor, A.M.C., Tectonic style of the northern boundary of the Caribbean, Jour. Geology, v. 88, p. 375-386.

101. 1980 White, G.W. and **Burke, K.**, Outline of the tectonic evolution of the Gulf of Mexico and the Caribbean region. Houston Geological Society Bulletin, June 1980, p. 8-13.
102. 1981 Livacari, R., **Burke, K.**, and Sengor, A.M.C., Was the Laramide orogeny related to subduction of an oceanic plateau? Nature, 289, 276-278.
103. 1981 **Burke K.**, (with Kidd, W.S.F. and Turcotte, D.L.), Tectonics of basaltic volcanism, Chapter 6 in “*Basaltic Volcanism*,” Lunar and Planetary Institute, Pergamon Press, pp.804-898.
104. 1981 **Burke, K.**, Dewey, J.F., Kidd, W.S.F., and Sengor, A.M.C., Continental collisions analogous to that forming the Qinghai-Xizang Plateau, in: Geological and Ecological Studies of the Qinghai-Xizang Plateau, Science Press Beijing, Gordon and Breach, New York, pp. 743-746.
105. 1981 **Burke, K.**, Two problems of intracontinental tectonics: re-elevation of old mountain belts and subsidence of intra-continental basins, in Proceedings of Intl. Conf. on Intracontinental Earthquakes, Ohrid Yugoslavia 1979 ed. J. Petrowski and Clarence Allen, Skopje 1981, pp. 157-164.
106. 1982 Sengor, A.M.C., **Burke, K.** and Dewey, J.F., Tectonics of the North Anatolian transform fault, in: Multidisciplinary Approach to Earthquake Prediction, ed. A. Mete Isikara and Andreas Vogel Friedr. Vieweg and Sohn, pp. 3-22.
107. 1982 **Burke, K.**, DeLong S.E. and Grippi, J., Geochemistry of some igneous rocks from the Lucea Inlier, Western Jamaica: Journal of the Geological Society of Jamaica, v.22, 10-15.
108. 1982 **Burke, K.**, and Mann, P., Neogene wrench faulting in the Wagwater Belt: Trans. 9<sup>th</sup> Carib. Geol. Conf., Santo Domingo, p. 95-97.
109. 1983 **Burke, K.**, Mann, P., Hempton, M.R. and Bradley, D.C., Development of pull-apart basins: Jour. of Geology, v. 92, pp. 529-554.
110. 1983 **Burke, K.** and Anderson, S.L., A Wilson Cycle approach to some Proterozoic problems in eastern North America: in Proterozoic Geology, ed. L.G. Medaris: Geol. Soc. Of Amer., Memoir 161, pp. 1175-1193.

111. 1983 **Burke, K.** and Wadge, G., Neogene Caribbean plate rotation and associated Central American tectonic evolution: Tectonics, v. 2, pp.633-643.
112. 1984 **Burke, K.**, Mann, P.W., Taylor, F.W. and Kulstad, R., Subaerially exposed H14olocene coral reef, Enriquillo Valley, Dominican Republic: Geol. Soc. of Amer. Bull., v. 95, 1084-1092.
113. 1984 **Burke, K.**, Cooper, C., Dewey, J.F., Mann, P.W. and Pindell, J.L., Caribbean tectonics and relative plate motion: GSA Memoir 162, p. 31-63, eds. W. Bonini, R. Hargraves and R. Shagam, pp. 31-63.
114. 1984 **Burke, K.**, Thompson, A.B., Richter, F.M., Ahrendt, H., Bickle, M.J., Dymek, R.F., Frisch, W., Gee, R.D., Kroner, A., O’Nions, R.K., Oxburgh, E.R., and Weber, K., The long-term evolution of the crust and mantle, in Patterns of Change of Earth Evolution, eds. Holland and Trendall, pp. 389-406.
115. 1984 Mann, P. and **Burke, K.**, Neotectonics of the Caribbean: Reviews of Geophys. & Space Physics: v.22, No. 4, pp. 309-362.
116. 1984 Mann, P. and **Burke, K.**, Cenozoic rift formation in the Northern Caribbean: Geology, v. 12, pp. 732-736.
117. 1984 Mann, P. **Burke, K.** and Matumoto, T., Neotectonics of Hispaniola: Earth and Planet. Sci. Letters, v. 70, 311-324.
118. 1984 **Burke, K.**, Plate tectonic history of the Arctic Colloquium on Arctic Geology, 27<sup>th</sup> Int. Geol. Cong. Repts., Nauka, Moscow, v. 14, p. 189-
119. 1985 **Burke, K.**, Kidd, W.S.F., and Kusky, T.M., The Pongola structure of Southeastern Africa: Jour. of Geodynamics, v. 2, 35-49.
120. 1985 **Burke, K.**, Kidd, W.S.F., and Kusky, T.M., Is the Ventersdorp rift system of Southern Africa related to continental collision between the Kaapvaal and Zimbabwe cratons at 2.64 Ga age? Tectonophysics, v. 155, 1-24.
121. 1985 Taylor, F.W., Mann, P., Valastro, S., Jr., and **Burke, K.**, Stratigraphy and Radiocarbon Chronology of a subaerially exposed Holocene coral reef, Dominican Republic: Jorn. Of Geology, v. 93, p. 311-332.
122. 1985 Morgan, P. and **Burke, K.**, Collision plateaus: Tectonophysics, v. 199, p. 137-151.

123. 1985 **Burke, K.** and Sengor, C., Tectonic escape in the evolution of the continental crust, in *Reflection Seismology: The Continental Crust*, eds. M. Barazangi and L. Brown, Geodynamics Series, v. 14, p. 41-53.
124. 1985 Mann, P., Draper, G. and **Burke, K.**, Neotectonics of a strike-slip restraining bend system, Jamaica: in *Strike-slip Deformation, Basin Formation and Sedimentation*, SEPM Spec Pub, pp. 211-226.
125. 1986 **Burke, K.**, Kidd, W.S.F., and Kusky, T.M., Archean foreland basin tectonics in the Witwaterstrand, S Africa, Tectonics, v. 5, 439-456.
126. 1986 Baldwin, S.L., Harrison, T.M., and **Burke, K.**, Fission track evidence for the source of accreted sandstones, Barbados, Tectonics, v. 5, 457-468.
127. 1986 Robertson, P., **Burke, K.**, and Wadge, G., Structure of the Melajo clay near Arima, Trinidad and strike-slip motion in the El Pilar Fault Zone. In: Transaction of the First Geological Conference of the Geological Society of Trinidad and Tobago (K. Rodrigues, ed.), pp. 21-23. Geological Society of Trinidad and Tobago, San Juan, Trinidad.
128. 1986 Ashwal, L., **Burke, K.**, de Wit, M., and Wells, G., eds. Workshop on the Earth as a Planet. LPI Tech. Report, 86-08, 39 pp., LPI, Houston
129. 1987 Ashwal, L.D. and **Burke, K.**, Types and characteristics of terrestrial anorthosites. In Lunar and Planetary Science XVIII, pp. 34-35.
130. 1987 **Burke, K.**, Sharpton, V.L., and Kennedy, J.W., Circular structures of diverse origins in China: A possible resemblance to Northern Venus. In: Lunar and Planetary Science XVIII, pp. 139-140. Lunar and Planetary Institute, Houston.
131. 1987 Zimbelman, J.R. and **Burke, K.**, Triple-junction rifting and detachment surfaces near the Pele volcano on Io. In Lunar and Planetary Science XVIII. Pp. 1124-1125. Lunar and Planetary Institute, Houston.
132. 1987 Committee on Global and International Geology (**K. Burke** and others). International Role of U.S. Geoscience. National Academy Press, Washington, 95 pp.
133. 1988 **Burke, K.**, Tectonic evolution of the Caribbean: Ann. Rev. Earth Planet. Sci. 1988, v. 16, 201-230.

134. 1988 **Burke, K.** and Sengor, C., Ten metre global sea-level change associated with South Atlantic Aptian salt deposition Marine Geology, v. 83, 309-312.
135. 1988 Harrison, T.M. and **Burke, K.**, Ar/ Ar Thermochronology of sedimentary basins using detrital feldspars, pp. 141-155, In: *Thermal History of Sedimentary Basins* eds. Nancy D. Naeser and Thane H. McCulloh, Springer Verlag, NY pp. 319.
- 136 1988 Wells, Gordon and **Burke, K.** The legacy of Sahelian management: 1965-1988 NATO Advanced Study Institutes Proc.pp 580-590
137. 1989 **Burke, K.** and Lucas, L., Thrusting on the Tibetan Plateau within the last 5 Ma. Tectonic Evolution of the Tethyan Region ed. A.M.C. Sengor, 507-512.
138. 1989 **Burke, K.** and Sengor, C., Regional lineaments and continental evolution. Mem. Geol. Soc. India. V. 12, 65-73.
139. 1989 Eva, A., **Burke, K.** Mann P and Wadge, G., Four-phase tectonostratigraphic development of the southern Caribbean. Marine and Petroleum Geology. v. 6, pp. 9-21.
140. 1989 Robertson, P. and **Burke, K.**, Evolution of the Southern Caribbean Plate Boundary in the vicinity of Trinidad and Tobago. AAPG Bull. V.73, pp. 490-509.
141. 1989 Ashwal, L.D. and **Burke, K.**, African Lithospheric structure, volcanism and Topography, Earth and Planetary Science Letters v.96, pp.8-14
142. 1989 **Burke, K.** and Wells, G. Trans-African drainage system of the Sahara: Was it the Nile? Geology, v. 17, pp. 743-747.
143. 1990 Mann, P., Schubert C. and **Burke, K.**, Review of Caribbean Neotectonics, pp. 307-338. In: volume H *The Caribbean Region, Decade of North American Geology*, Geologic Soc America.
144. 1990 Mann, P. and **Burke, K.**, Transverse intra-arc rifting: Paleogene Wagwater Belt, Jamaica, Marine and Petroleum Geology. v. 7, pp. 410-427.
145. 1990 **Burke, K.**, Francis, P., Wells, G., Importance of the Geologic Record in Understanding Global Change. Global and Planet Change v. 3 pp. 193-204.

146. 1993 Zoback, M.L. and **Burke, K.**, Lithospheric Stress Patterns: A Global View *EOS* v. 74 p. 609
147. 1993 Sharpton, V.L., **Burke, K.**, and others, Chicxulub Multi-ring Impact Basin, *Science* v. 261 pp. 1564-1567
148. 1993 **Burke, K.**, and Lytwyn, Jennifer. Origin of the Rift Under the Amazon Basin as a Result of Continental Collision During Pan-African Time. *Int. Geol. Review.* V. 35, pp. 881-897
149. 1994 Geology: A Truly International Activity, *GSA Today*, April 1994 p.98
150. 1994 **Burke, K.**, Sharpton, V.L. and Fegley, Bruce. Are steep slopes on Venus preserved as a result of cementation of pore spaces in surface rocks? *Lunar & Planetary Science* v. XXV p.201
151. 1994 **Burke, K.**, Has Plate Tectonics Gone Away ?, *Geotimes*, No.2, p.34
152. 1994 Wylie, P.J., **Burke, K.**, Price, J. Rock System Science in Earth System Science, *Geotimes* No.4, p.4.
153. 1996 **Burke, K.** The African Plate, 24<sup>th</sup> du Toit Memorial lecture *South Afr. Journ Geol.* V. 99 pp 339-409
154. 1997 **Burke, K.** Foreword: Greenstone Belts ed M.De Wit and L.D. Ashwal pp.v-vii
155. 1998 Crowley T.J. and **Burke, K.** (Editors) *Tectonic Boundary Conditions for Climate Reconstructions*. Oxford Univ. Press x plus 285 pages
156. 1998 Droxler A, **K. Burke** and six others: Caribbean constraints on circulation between the Atlantic and Pacific Oceans pp169-191 in Crowley and **Burke** *Tectonic Boundary Conditions* (see # 154 above)
157. 1999 **Burke, K.** Tectonic significance of the accumulation of the voluminous Early Paleozoic Reservoir-containing Quartz-rich sandstones of North Africa and Arabia. *Bull. Houston Geol. Soc.* Vol.41 No.7 pp11-13
158. 2000 Bosworth W., M. Strecker and **K. Burke** Magma chamber elongation as an indicator of intra-plate stress-field orientation. *Journal of the Virtual Explorer*. Vol 2 . **Electronic journal ( downloads as ca.15 pp, 9 colored figs.)**
159. 2000 **Burke, K.** Africa's Vast Petroleum Reserves. *Bull Houston Geol. Soc*



Vol 43No.3 p.35-41 Nov.2000.

- 160 2001 Lytwyn J, E Rutherford **K. Burke** and Chunshou Xia: Volcanic, Plutonic and Turbiditic rocks of Sumba: *Journal Asian Earth Sci.* v.19 p.481- 500
161. 2001 Rutherford, E. **Burke, K.** Lytwyn, J.:Tectonic history of Sumba island since the Late Cretaceous and its rapid Miocene escape into the Sunda forearc. *Journal Asian Earth Sciences.*v.19.p.453-479
162. 2001 **Burke, K.** Origin of the Cameroon Line of volcano-capped swells *Journal of Geology* v.109 p.349-362
163. 2001 **Burke,K.** The Lithosphere. **In:** *Encyclopedia of Global Change*, Wiley Publishing.
164. 2001 **Burke,K.** The Earth Sciences. **In:** *Encyclopedia of Science and Technology*, McGraw Hill Publishing.
165. 2002 Bjorklund,T. and **K.Burke** , Four dimensional analysis of the inversion of the Whittier fold-thrust system of the Los Angeles basin over the past 16 million years. *Journal Structural Geology* Vol.24 p.1369-1397
- 166 2002 Bjorklund,T. **K.Burke**, Hua-Wei Zhou and R.Yeats. Miocene volcanism and extension in the Puente Hills half-graben of the Los Angeles basin. *Geology* v.30 p.447-450
- 167 2003 **Kevin Burke**, Duncan MacGregor & Nick Cameron: Africa's Petroleum systems: four tectonic Aces in the past 600 million years *in* Arthur,T. MacGregor, D. & Cameron, N. *Petroleum Geology of Africa: New Themes and developing Technologies* Special publication # 207 p.21-60 Geological Society of London.
- 168 2003 W. Bosworth,**K.Burke** & M. Strecker Effect of Stress Field on Magma Chamber Stability and the formation of collapse calderas. *Tectonics* 22 doi10.1029/2002 TC 001369,2003
- 169 2003 **K.Burke**, L.D. Ashwal & S. Webb: New way to map old sutures using deformed alkaline rocks and carbonatites. *Geology* v.31.no.5.p.391-394
- 170 2004 **Burke,K.**& Trond Torsvik: Derivation of Large Igneous provinces of the past 200 million years from long-term heterogeneities in the deep mantle. *Earth & Planetary Science Letters* vol.227 p.531-538.

171. 2005 Dale E. Bird, **Kevin Burke**, Stuart A. Hall and John F. Casey (2005): Gulf of Mexico tectonic history: Hotspot tracks, crustal boundaries, and early salt distribution. Bull. American Assoc. Petrol. Geologists. Vol.89 p.311-328
172. 2005 Bill Bosworth & **Kevin Burke**: Evolution of the Red Sea-Gulf of Aden Rift System. In : Gulf Coast Assoc. Geological Societies 25<sup>th</sup> Ann. Bob Perkins Research conf. : Petroleum systems of divergent Continental Margin basins. p.342-372.
173. 2006 **Kevin Burke** & Shuhab Khan (2006) Geoinformatic approach to global Nepheline syenite and Carbonatite distribution: Testing a Wilson cycle model. Geosource v.2 p.53-60;doi: 10.1130/GES00027
174. 2006 C. Leelanadam, **Kevin Burke** L.D. Ashwal and S.J.Webb. Proterozoic mountain building in India: an analysis based primarily on alkaline rock distribution. Geological Magazine v.143 (2) pp.195-212 Cambridge,England.
175. 2006 L.D. Ashwal, **Kevin Burke**, and seven others (2006): Geochronology of large zircons from nepheline syenite gneisses as constraints on tectonic setting: an example from S. Malawi. Contrib Mineral Petrol DOI 10.1007/s00410-006-0153-9
176. 2006 Trond Torsvik, Mark Smethurst, **Kevin Burke** and Bernhard Steinberger (2006) Large Igneous Provinces of the past 200 My erupted from the edges of Large Low Velocity provinces at the core mantle boundary Geophysical Journal, Intl. Doi:10.1111/j.1365-246X.2006.03158.x
177. 2006 Aibing Li and **Kevin Burke** (2006) Seismic evidence for a low velocity zone in the upper mantle of southern Africa from Rayleigh wave tomography. Doi:10.1029/2006JB004321, JGR Solid Earth VOL. 111, B
178. 2006 J.Lytwyn, **Kevin Burke**, and S. Culver ( 2006) The Nature and age of the Suture zone in the Rokelide Orogen Sierra Leone: Geochemical Evidence. J. African Earth Science 46.439-454
179. 2006 Raymond Jeanloz, Arden Albee and **Kevin Burke** (Editors) Annual Reviews of Earth and Planetary Sciences, 2006.
180. 2007 **Kevin Burke**, David Roberts and Lewis D. Ashwal. (2007) Alkaline rocks and carbonatites of northwestern Russia and northern Norway: Linked Wilson cycle records extending over two billion years. Tectonics, v. 26, TC4015, doi:10.1029/2006TC002052, 2007

181. 2007 **Kevin Burke** (2007) Dancing Continents (a book review). *SCIENCE* **138** p.1385 doi: 10.1126/science 115 1202
182. 2007 **Kevin Burke** , D.E. Bird\* S.A. Hall, J.F. Casey, D.S. Sawyer (2007) Early Central Atlantic Ocean seafloor spreading history *Geosphere*; Dec. 2007; v. 3; no. X; p. 000–000; doi: 10.1130/GES00047.1; 15 figures; 5 tables.
183. 2007 Raymond Jeanloz, Arden Albee and **Kevin Burke** (Editors) Annual Reviews of Earth and Planetary Sciences, 2007.
184. 2008 **Kevin Burke**, Bernhard Steinberger ,Trond H. Torsvik and Mark A. Smethurst Plume Generation Zones at the margins of Large Low Shear Velocity Provinces on the core–mantle boundary. *Earth and Planetary Science Letters* 265 (2008) 49–60 doi:10.1016/j.epsl.2007.09.042
185. 2008 **Kevin Burke** and Yani Gunnell .*The African Erosion Surface: A Continental-scale Synthesis of Geomorphology, Tectonics, and Environmental Change over the Past 180 Million Years*. Geological Society of America: Memoir 201 p.1-66. ISBN-13: 978-0-8137-1201-7
186. 2008 **Kevin Burke** ( with Trond Torsvik, Mark Smethurst and Bernhard Steinberger (2008) Long term stability in deep mantle structure: Evidence from the ~300 Ma Skagerrak-Centered Large Igneous Province (the SCLIP). *Earth and Planetary Science Letters* 267 (2008) 444–452
187. 2008 **Kevin Burke**, Shuhab D. Khan, Ronald W. Mart, Grenville Province and Monteregian carbonatite and nepheline syenite distribution related to rifting, collision, and plume passage. *Geology*, December 2008; v. 36; no. 12; p983–986; doi: 10.1130/G25247A.1
188. 2008 Trond Torsvik Bernhard Steinberger, L. Robin M. Cocks, **Kevin Burke**, Longitude: Linking Earth's ancient surface to its deep interior. *Earth and Planetary Science Letters* 276 (2008) 273–282
189. 2008 Raymond Jeanloz, Arden Albee and **Kevin Burke** (Editors) Annual Reviews of Earth and Planetary Sciences, 2008.
190. 2009 **Kevin Burke**, with Khan, S. D., Walker, D. J., Hall, S., K., Shah, M. T., and Stockli, L. (2009) Did Kohistan-Ladakh island arc collide first with India? *Geological Society of America Bulletin*, v. 121, no. 3-4, p. 366-384, doi:10.1130/B26348.
- 191 2010 **Kevin Burke**, with Trond Torsvik,Bernhard Steinberger, Susan Webb, and Lewis D. Ashwal (2010) Diamonds sampled by plumes from the core-mantle boundary

Nature 465 doi: 10.1038/nature09216

- 192 2010      **Kevin Burke**, with Engelkemeir, R., Khan, SD.(2010) Surface deformation in Houston, Texas using GPS Tectonophysics 490, 47-54
- 194 2011      **Kevin Burke**, with D.Bird, S.A Hall and J Casey. (2011) The tectonic evolution of the Gulf of Mexico. In: Gulf of Mexico Origin, Waters, and Biota: Volume 3, Geology, Ed. Noreen A. Buster, Charles W. Holmes, Harte Inst. Texas A& M Press
- 194 2011      **Kevin Burke** (2011) Plate Tectonics, the Wilson Cycle and Mantle Plumes : Geodynamics from the Top. Annual Reviews Earth & Planetary Sciences ed. Raymond Jeanloz and Kathleen Freeman vol 39 p.1-29
- 195 2012      Ana Krueger, Mike Murphy, Ed Gilbert and **Kevin Burke** .  
Deposition and deformation in the deepwater sediment of the offshore Barreirinhas Basin, Brazil. Geosphere 2012.8.1606-1631.  
Doi.10.1130/GES00805.1
- 196 2012      Kevin Burke, Stephanie C. Werner, Bernhard Steinberger and Trond Torsvik. Why is the areoid like the residual geoid?  
Geophysical Research Letters, vol. 39, 5 pp., 2012  
doi:10.1029/2012GL052701
- 197 2013      Irshad Ahmad, Shuhab Khan, Thomas Lapen, Kevin Burke and Noor Jehan. Isotopic ages for alkaline igneous rocks, including a 26 Ma ignimbrite, from the Peshawar plain of northern Pakistan and their tectonic implications Jnl. Asian Earth Sciences. Vol. 62, 2013, pp 414–424 doi.10.1016/



