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Memorial of Sturges William Bailey, 1919-1994

Stephen Guggenheim

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PUBLICATIONS:

- 1948 Bailey, S. W., Liquid inclusions in granite thermometry: *Jour. Geology*, v. 57, p. 304-307.
- 1951 Bailey, S. W. and E. N. Cameron, Temperatures of mineral formation in bottom-run lead-zinc deposits of the upper Mississippi Valley, as indicated by liquid inclusions: *Economic Geology*, v. 46, p. 626-651.
- 1951 Bailey, S. W., R. B. Ferguson and W. H. Taylor, X-ray determination of centrosymmetry in three feldspars: *Mineralogical Magazine*, v. 29, p. 759-764.
- 1955 Bailey, S. W. and W. H. Taylor, The structure of a triclinic potassium feldspar: *Acta Crystallographica*, v. 8, p. 621-632.
- 1956 Bailey, S. W., E. N. Cameron, H. R. Spedden and R. J. Weege, The alteration of ilmenite in beach sands: *Economic Geology*, v. 51, p. 263-279.
- 1957 Bailey, S. W., Tallman, R. L., and Margrave, J. L., The crystal structure of sodium peroxide: *Jour. Amer. Chemical Society*, v. 79, p. 2979.
- 1957 Bailey, S. W. and E. N. Cameron, Is leucoxene always finely crystalline rutile?--a reply: *Economic Geology*, v. 52, p. 716-720.
- 1958 Bailey, S. W., R. A. Bell and C. J. Peng, Plastic deformation of quartz in nature: *Bull. Geologic Society America*, v. 69, p. 1443-1466.
- 1960 Bailey, S. W. and S. A. Tyler, Clay minerals associated with the Lake Superior iron ores: *Economic Geology*, v. 55, p. 150-175.
- 1961 Tyler, S. A. and S. W. Bailey, Secondary glauconite in the Biwabic iron-formation of Minnesota: *Economic Geology*, v. 56, p. 1033-1044.
- 1961 (Editor); *Rocks and what they tell us*: Whitman Publishing Co., Racine, Wisconsin, 59 pages.
- 1962 Bailey, S. W. and B. E. Brown, Chlorite polytypism: I. Regular and semi-random one-layer structures: *Amer. Mineralogist*, v. 47, p. 819-850.
- 1962 Bailey, S. W., P. M. Hurley, H. W. Fairbairn and W. H. Pinson, K-Ar dating of sedimentary illite polytypes: *Bull. Geological Society America*, v. 73, p. 1167-1170.

- 1963 Brown, B. E. and S. W. Bailey, 1963, Chlorite polytypism: II. Crystal structure of a one-layer Cr-chlorite: *Amer. Mineralogist*, v. 48, p. 42-61.
- 1963 Smith, J. V. and S. W. Bailey, Second review of Al--O and Si--O tetrahedral distances: *Acta Crystallographica*, v. 16, p. 801-811.
- 1963 Bailey, S. W., Polymorphism of the Kaolin minerals: *Amer. Mineralogist*, v. 48, p. 1196-1209.
- 1964 Finney, J. J. and S. W. Bailey, Crystal structure of an authigenic maximum microcline: *Zeitschrift Kristallographie*, v. 119, p. 436.
- 1964 Brown, B. E. and S. W. Bailey, The structure of maximum microcline: *Acta Crystallographica*, v. 17, p. 1391-1400.
- 1965 Doman, R. C., C. J. Cinnamon and S. W. Bailey, Structural discontinuities in the plagioclase feldspar series: *Amer. Mineralogist*, v. 50, p. 724-740.
- 1965 Shirozu, Haruo and S. W. Bailey, Chlorite polytypism: III. Crystal structure of an orthohexagonal iron chlorite: *Amer. Mineralogist*, v. 50, p. 868-885.
- 1966 Eggleton, R. A. and S. W. Bailey, the Crystal structure of stilpnomelane, Part I. The subcell: *Clays and Clay Minerals, Proc. 13th Conf.*, Pergamon Press, New York, p. 49-63.
- 1966 Bradley, W. F. and S. W. Bailey (Editors), *Clays and Clay Minerals, Proc. 13th Conf.* Pergamon Press, New York, 453 p.
- 1966 Bailey, S. W., The status of clay mineral structures: *Clays and Clay Minerals, Proc. 14th Conf.*, Pergamon Press, New York, p. 1-23.
- 1966 Bailey, S. W. (Editor) *Clays and Clay Minerals, Proc. 14th Conf.* Pergamon Press, New York, 447 pp.
- 1966 Shirozu, Haruo and S. W. Bailey, Crystal Structure of a two-layer Mg-vermiculite: *Amer. Mineralogist*, v. 51, p. 1124-1143.
- 1967 Eggleton, R. A. and S. W. Bailey, Structural aspects of dioctahedral chlorite: *Amer. Mineralogist*, v. 52, p. 673-689.
- 1967 Mossman, M. H., D. H. Freas and S. W. Bailey, Orienting internal

standard method for clay mineral X-ray analysis: *Clays and Clay Minerals*, Proc. 15th Conf., Pergamon Press, New York, p. 441-453.

1967 Bailey, S. W. (Editor), *Clays and Clay Minerals*, Proc. 15th Conf., Pergamon Press, New York, 491 pp.

1967 Lister, Judith S. and S. W. Bailey, Chlorite polytypism. IV. Regular two-layer structures: *Amer. Mineralogist*, v. 52, p. 1614-1631.

1967 Bailey, S. W., Lecture notes: American Geological Institute Short Course on Layer Silicates, 82 p.

1968 Dalziel, I. W. D. and S. W. Bailey, Deformed garnets in a mylonitic rock from the Grenville Front and their tectonic significance: *Amer. Jour. Sci.*, vol. 266, p. 542-562.

1969 Blount, Alice M., I. M. Threadgold and S. W. Bailey, Refinement of the crystal structure of nacrite: *Clays and Clay Minerals*, vol. 17, p. 185-194.

1969 Bailey, S. W., Anauxite and kaolinite structures identical: *Clays and Clay Minerals*, vol. 17, p. 241-243.

1969 Bailey, S. W., Polytypism of trioctahedral 1:1 layer silicates: *Clays and Clay Minerals*, vol. 17, p. 355-371.

1969 Bailey, S. W., Refinement of an intermediate microcline structure: *Amer. Mineralogist*, vol. 54, p. 1540-1545.

1971 Bailey, S. W. and others, Summary of national and international recommendations on clay mineral nomenclature: *Clays and Clay Minerals*, vol. 19, p. 129-132.

1971 Bailey, S. W. and others, Report of nomenclature committee of The Clay Minerals Society 1969-70: *Clays and Clay Minerals*, vol. 19, p. 132-133.

1971 Cinnamon, C. G. and S. W. Bailey, Antiphase domain structure of the intermediate plagioclase feldspars: *Amer. Mineralogist*, vol. 56, p. 1180-1198.

1972 Bailey, S. W., Recent advances in the crystal structures and crystal chemistry of layer silicates: *International Clay Conf., Madrid, Proc. Vol I Preprints*, p. 3-13.

- 1972 Charles F. Mansfield and S. W. Bailey, Twin and pseudotwin intergrowths in kaolinite: *Amer. Mineralogist*, vol. 57, p. 411-425.
- 1972 S. W. Bailey, Determination of chlorite compositions by X-ray spacings and intensities: *Clays and Clay Minerals*, vol. 20, p. 381-388.
- 1973 S. W. Bailey, Recent advances in the crystal structure and crystal chemistry of layer silicates: Chairman's Introduction. Proc. 1972 International Clay Conf., Madrid, p. 3-12.
- 1975 S. W. Bailey, L. W. Finger, W. C. Kelly, E. F. Osborn, and P. Toulmin, Report of the MSA Financial Advisory Committee for 1974. *Amer. Mineralogist*, v. 60, p. 524-525.
- 1975 S. W. Bailey, Chlorites: Chapter 7 in *Soil Components, Vol. II. Inorganic Components*, p. 191-263. Springer-Verlag, New York.
- 1975 S. W. Bailey, Cation ordering and pseudosymmetry in layer silicates: *Amer. Mineralogist*, vol. 60, p. 175-187.
- 1975 S. Guggenheim and S. W. Bailey, Refinement of the margarite structure in subgroup symmetry: *Amer. Mineralogist*, v. 60, p. 1023-1029.
- 1976 S. W. Bailey (Editor), *Proceedings of the International Clay Conference 1975, Mexico City*: Applied Publ. Ltd., Wilmette, IL., 691 p.
- 1976 S. H. Hall, S. Guggenheim, P. Moore and S. W. Bailey, The structure of Unst-type 6-layer serpentines: *Canadian Mineralogist*, v. 14, p. 314-321.
- 1976 S. H. Hall and S. W. Bailey, Amesite from Antarctica: *Amer. Mineralogist*, v. 61, p. 497-499.
- 1976 S. W. Bailey, L. W. Finger, G. W. Fisher, W. C. Kelly, E. F. Osborn, and P. Toulmin, Report of the MSA Financial Advisory Committee for 1975: *Amer. Mineralogist*, v. 61, p. 541.
- 1977 L. F. Brown, Jr., S. W. Bailey, L. M. Cline, and Judith S. Lister, Clay mineralogy in relation to deltaic sedimentation patterns of Desmoinesian cyclothems in Iowa-Missouri: *Clays and Clay Minerals*, v. 25, p. 171-186.
- 1977 S. W. Bailey, Report of the I.M.A.--I.U.Cr. Joint committee on Nomenclature: *Amer. Mineralogist*, v. 62, p. 411-415, and *Acta*

Crystallographica, v. A33, p. 681-684, and Bull. Soc. Francaise Mineralogie et Cristall., v. 100, p. 143-146.

1977 S. Guggenheim and S. W. Bailey, The refinement of zinnwaldite-1M in subgroup symmetry: Amer. Mineralogist, v. 62, p. 1158-1167.

1977 S. W. Bailey and J. F. Riley, An unusual chlorite from Western Australia: Mineralogical Magazine, v. 41, p. 541-544.

1977 S. W. Bailey, G. W. Fisher, B. A. Morgan, E. F. Osborn, D. Rumble, and P. Toulmin, Report of the MSA Financial Advisory Committee for 1976: Amer. Mineralogist, v. 62, p. 613-614.

1978 S. Guggenheim and S. W. Bailey, Refinement of the margarite structure in subgroup symmetry: correction, further refinement, and comments: Amer. Mineralogist, v. 63, p. 186-187.

1978 S. W. Bailey and O. H. J. Christie, Three-layer monoclinic lepidolite from Trdal, Norway: Amer. Mineralogist, v. 63, p. 203-204.

1978 S. W. Bailey, P. M. Bethke, E. F. Osborn, D. W. Rankin, M. Ross, and P. Toulmin, Report of the MSA Financial Advisory Committee for 1977: Amer. Mineralogist, v. 63, p. 613-614.

1979 S. W. Bailey, Summary of recommendations of AIPEA Nomenclature Committee: Clay Science, v. 5, p. 209-220.

1979 S. H. Hall and S. W. Bailey, Cation ordering pattern in amesite: Clays and Clay Minerals, v. 27, p. 241-247.

1979 S. W. Bailey, G. W. Brindley, H. Kodama, and R. T. Martin, Report of the Clay Mineral Society Nomenclature Committee for 1977 and 1978: Clays and Clay Minerals, v. 27, p. 238-239.

1980 T. L. Phillips, Janet K. Loveless, and S. W. Bailey, Cr³⁺ coordination in chlorites: a structural study of ten chromian chlorites: American Mineralogist, v. 65, p. 112-122.

1980 S. W. Bailey, Summary of recommendations of AIPEA Nomenclature Committee: American Mineralogist, v. 65, p. 1-7; also in Canadian Mineralogist, v. 18, p. 143-150; Clays and Clay Minerals, v. 28, p. 73-78; Clay Minerals, v. 15, p. 85-93.

1980 S. W. Bailey, Structure of Layer Silicates: Chapter I in Crystal

Structures of Clay Minerals and their Identification, p. 1-124.
London, Monograph 5 of Mineralogical Society, 495 pages.

1981 Cynthia S. Anderson and S. W. Bailey, A new cation ordering pattern in amesite-2H2: *American Mineralogist*, v. 66, p. 185-195.

1981 Z. Weiss, S. W. Bailey, and M. Rieder, Refinement of the crystal structure of kanonaite, $(\text{Mn}^{3+}, \text{Al})_6(\text{Al}, \text{Mn}^{3+})_5\text{O}(\text{SiO}_4)$: *American Mineralogist*, v. 66, p. 561-567.

1981 Teresa H. Swanson and S. W. Bailey, Redetermination of the lepidolite-2M1 structure: *Clays and Clay Minerals*, v. 29, p. 81-90.

1981 S. W. Bailey, The History of Geology and Geophysics at the University of Wisconsin-Madison 1848-1980: Madison, WI, publ. by Dept. of Geology & Geophysics, Univ. WI, 174 p.

1981 S. W. Bailey, Chlorite Group: p. 66-69 in *The Encyclopedia of Mineralogy* (Editor: K. Frye), Academic Press, New York.

1981 S. W. Bailey, A system of nomenclature for regular interstratifications: *Canadian Mineralogist*, v. 19, p. 651-655.

1982 S. Guggenheim, S. W. Bailey, R. A. Eggleton, and P. Wilkes, Structural aspects of greenalite and related minerals: *Canadian Mineralogist*, v. 20, p. 1-18.

1982 S. W. Bailey, Chlorite: *McGraw-Hill Encyclopedia of Science and Technology*, p. 125.

1982 S. W. Bailey, Nomenclature for regular interstratifications: *American Mineralogist*, v. 67, 394-398. (Also in *Clays and Clay Minerals*, v. 30, p. 76-78; *Clay Minerals*, v. 17, p. 243-248).

1982 S. Guggenheim and S. W. Bailey, the superlattice of minnesotaite: *Canadian Mineralogist*, v. 20, p. 579-584.

1983 C. A. Geiger, D. L. Henry, S. W. Bailey, and J. J. Maj, Crystal structure of cronstedtite: *Clays and Clay Minerals*, v. 31, p. 97-108.

1983 S. W. Bailey, Eugene Nathan Cameron: Frontispiece to Cameron Volume on Unconventional Mineral Deposits (W. C. Shanks, Ed.), Soc. Mining Engineers of AIMMPE, New York. p. iii-vi.

- 1984 C.-Y. Lin and S. W. Bailey, The crystal structure of paragonite-2M1: *American Mineralogist*, v. 69, 122-127.
- 1984 S. W. Bailey, Review of cation ordering in micas: *Clays and Clay Minerals*, v. 32, p. 81-92.
- 1984 L. A. Tompkins, S. W. Bailey, and S. E. Haggerty, Kimberlitic chlorites from Sierra Leone, West Africa: unusual chemistries and structural polytypes: *American Mineralogist*, v. 69, p. 237-249.
- 1984 S. W. Bailey, G. W. Brindley, D.S. Fanning, H. Kodama, and R. T. Martin, Report of the Clay Minerals Society Nomenclature Committee for 1982 and 1983: *Clay and Clay Minerals*, v. 32, p. 239-240.
- 1984 S. W. Bailey (Editor), *Micas: Vol. 13 of Reviews in Mineralogy*, Mineralogical Society of America, Bookcrafters, Inc., 583 pp.
- 1984 S. W. Bailey, Classification and Structures of the micas: Chapter 1 in *Micas, Vol. 13 of Reviews in Mineralogy*, Mineralogical Society of America, p. 1-12.
- 1984 S. W. Bailey, Crystal chemistry of the true micas: Chapter 2 in *Micas, Vol. 13 of Reviews in Mineralogy*, Mineralogical Society of America, p. 13-60.
- 1984 S. W. Bailey, X-ray powder patterns of micas: Appendix in *Micas, vol. 13 of Reviews in Mineralogy*, Mineralogical Society of America, p. 573-584.
- 1985 C.-Y. Lin and S. W. Bailey, Structural data for sudoite: *Clays and Clay Minerals*, v. 33, p. 410-414.
- 1985 Audrey C. Rule and S. W. Bailey, Refinement of the crystal structure of phengite-2M1: *Clays and Clay Minerals*, v. 33, p. 403-409.
- 1985 Marlene A. Filut, Audrey C. Rule, and S. W. Bailey, Crystal structure refinement of anandite-2Or, a barium- and sulfur-bearing trioctahedral mica: *American Mineralogist*, v. 70, Dec. issue.
- 1985 S. W. Bailey, Structures of layer silicates: Revision and reprinting of Chap. 1 in *Crystal Structures of Clay Minerals and their X-ray Identification*, G. W. Brindley and G. Brown, eds., Monograph 5 of Mineralogical Society, London, p. 1-124.

- 1986 S. W. Bailey, Layer silicate structures: in Chap. 3 in *Clay Minerals and the Origin of Life*, A. G. Cairns-Smith and H. Hartman, eds., Cambridge University Press, p. 24-40.
- 1986 R. A. Knurr and S. W. Bailey, Refinement of Mn-substituted muscovite and phlogopite: *Clays and Clay Minerals*, v. 34, p. 7-16.
- 1986 S. W. Bailey, Re-evaluation of ordering and local charge-balance in *Ia* chlorite: *Canadian Mineralogist*, Dec. issue.
- 1987 S. W. Bailey, Structural studies of clay minerals during 1981-1985: *Proc. International Clay Conference*, Denver, 3-8.
- 1987 T. C. Juster, P. E. Brown, and S. W. Bailey, NH₄-bearing illite in very low grade metamorphic rocks associated with coal, Northeastern Pennsylvania: *American Mineralogist*, v. 72, 555-565.
- 1987 A. C. Rule and S. W. Bailey, Refinement of the crystal structure of a monoclinic ferroan clinochlore: *Clays & Clay Minerals*, v. 35, 129-138.
- 1987 A. C. Rule, S. W. Bailey, K. J. T. Livi, and D. R. Veblen, Complex stacking sequences in a lepidolite from Trdal, Norway: *American Mineralogist*, v. 72, 1163-1169.
- 1988 S. W. Bailey (Editor) *Hydrous Phyllosilicates (exclusive of micas)*. Vol. 19 *MSA Reviews in Mineralogy*, 725 pp.
- 1988 S. W. Bailey, Introduction: Chap. 1 in *Hydrous Phyllosilicates*, Vol. 19 in *MSA Reviews in Mineralogy*, p. 1-8.
- 1988 S. W. Bailey, Polytypism of 1:1 layer silicates: Chap. 2 in *Hydrous Phyllosilicates*, Vol. 19 in *MSA Reviews in Mineralogy*, p. 9-27.
- 1988 S. W. Bailey, Structures and compositions of other trioctahedral 1:1 phyllosilicates: Chap. 6 in *Hydrous Phyllosilicates*, Vol. 19 in *MSA Reviews in Mineralogy*, p. 169-188.
- 1988 S. W. Bailey, Chlorites: structures and crystal chemistry: Chap. 10 in *Hydrous Phyllosilicates*, Vol. 19 in *MSA Reviews in Mineralogy*, p. 347-403.
- 1988 G. S. Odin, S. W. Bailey, M. Amouric, F. Fröhlich, and G. Waychunas, Mineralogy of the verdine facies: Chap. B5 in *Green Marine Clays*, G. S. Odin (Ed.), *Developments in Sedimentology* 45, p. 159-204, Amsterdam,

Elsevier Press.

1988 D. R. Peacor, R. C. Rouse, and S. W. Bailey, Crystal structure of franklinfurnaceite: A tri-dioctahedral zincosilicate intermediate between chlorite and mica: *American Mineralogist*, v. 73, p. 876-887.

1988 J. A. MacKinney, C. I. Mora, and S. W. Bailey, Structure and crystal chemistry of clintonite: *American Mineralogist*, v. 73, p. 365-375.

1988 S. W. Bailey, X-ray diffraction identification of the polytypes of micas, serpentine, and chlorite (1987 George W. Brindley Lecture): *Clays and Clay Minerals*, v. 36, p. 193-213.

1988 S. W. Bailey, Odinite, a new dioctahedral-trioctahedral Fe³⁺-rich 1:1 clay mineral: *Clay Minerals*, v. 23, p. 237-247.

1989 S. W. Bailey, Structures, compositions, and X-ray diffraction identification of dioctahedral chlorites: *Clays and Clay Minerals*, v. 37, p. 193-202.

1989 H. Zheng and S. W. Bailey, Structures of intergrown triclinic and monoclinic IIb chlorites from Kenya: *Clays and Clay Minerals*, v. 37, p. 308-316.

1989 S. Guggenheim and S. W. Bailey, An occurrence of a modulated serpentine related to the greenalite-caryopilite series: *American Mineralogist*, v. 74, p. 637-641.

1990 S. Guggenheim and S. W. Bailey, Baumite discredited: *American Mineralogist*, v. 75, p. 705.

1991 S.W. Bailey, Practical notes concerning the indexing of x-ray powder diffraction patterns of clay minerals: *Clays and Clay Minerals*, v. 39, p. 184-190.

1991 S.W. Bailey, Halloysite, a critical assessment: Proc. 9th International Clay Conference, Strasbourg, v. II, p. 89-98. *Sciences Géologiques, Mémoire* 86.

1991 S.W. Bailey, Acceptance of the Roebling Medal of the Mineralogical Society of America for 1990: *American Mineralogist*, v. 76, p. 1140-1141.

1991 R.T. Martin, S.W. Bailey and others, Report of The Clay Minerals

Society Nomenclature Committee: Revised classification of clay minerals: Clays and Clay Minerals, v. 39, p. 333-335.

1991 S.W. Bailey, Acceptance of the Neil Miner Award of the National Association of Geology Teachers for 1990: Journal of Geological Education, v. 39, p. 7-8.

1993 Z. Weiss, M. Rieder, L. Smrcok, V. Petricek, and S.W. Bailey, Refinement of the crystal structures of two "protolithionites": European Journal of Mineralogy, v. 5, p. 493-502.

Banfield, J.F., Bailey, S.W. and Barker, W.W. (1994) Polysomatism, polytypism, microstructures and reaction mechanisms in regularly and randomly interstratified serpentine and chlorite. Contributions to Mineralogy and Petrology, 117, 137-150.

Bailey, S.W., Banfield, J.F., and Barker, W.W. (1995) Dozyite: A 1:1 regular interstratification of serpentine / chlorite. American Mineralogist, in press.

Banfield, J.F., Bailey, S.W., Barker, W.W., and Smith, R.C. II (1995) Complex polytypism: relationships between serpentine structural characteristics and deformation. American Mineralogist, accepted.

Bailey, S.W. and Banfield, J.F. (1995) Derivation and identification of non standardserpentine polytypes. American Mineralogist, accepted.

Banfield, J.F. and Bailey, S.W. Evidence for formation of regularly interstratified serpentine-chlorite minerals by direct replacement of long-period serpentine polytypes. American Mineralogist, in review.