

BIBLIOGRAPHY

- New South Wales Archives Office, 1938. Aerial mosaics of the Pilliga Scrub. Kingswood, AO18981-19040. 60 sheets.
- Alexander, G.B., Heston, W.M. and Iler, R.K., 1954. The solubility of amorphous silica in water. *J. Phys. Chem.*, 58: 453-455.
- Amos, G.L., 1952. Silica in Timbers. *Bull. No. 267. CSIRO Melb.*
- Arimura, S. and Kanno, I., 1965. An investigation of plant opals. *Bull. Kyushu Expt. Sta. II.* 97-109.
- Ashton, D.H., 1975. Studies of litter in *Eucalyptus regnous* forests. *Aust. J. Bot.*, 23: 413-433.
- Attiwill, P.M., 1968. The loss of elements from decomposing litter. *Ecology*, 49: 142-145.
- Attiwill, P.M., Guthrie, H.B. and Leuning, R., 1978. Nutrient cycling in a *Eucalyptus obliqua* (L'Herit.) forest. I Litter production and nutrient return. *Aust. J. Bot.*, 26: 79-91
- Auld, A., 1991. Pers. Comm. New South Wales National Parks and Wildlife Service.
- Baker, G., 1959a. Opal Phytoliths in some Victorian Soils and "Red Rain" residues. *Aust. J. Bot.*, 7: 64-87.
- _____ 1959b. A contrast in the opal phytolith assemblages of two Victorian Soils. *Aust. J. Bot.*, 7: 88-96.
- _____ 1959c. Fossil opal-phytoliths and Phytolith Nomenclature *Aust. J. Sci.*, 21: 305-306.
- _____ 1960a. Phytoliths in some Australian Dusts. *Proc. Roy. Soc. Vic.*, 72: 21-40.
- _____ 1960b. Hook-shaped opal phytoliths in the epidermal cells of oats. *Aust. J. Bot.* 8: 69-74.
- _____ 1960c. Fossil opal-phytoliths. *Micropaleontology*, 6: 79-85.
- _____ 1960d. Phytolitharien. *Aust. J. Sci.*, 22: 392-393.
- Baker, G. and Gaskin, A.J., 1946. Natural glass from Macedon, Victoria, and its relationships to other natural glasses. *J. Geol.* 54: 88-104.
- Baker, G., Jones, L.H.P. and Wardrop, I.D., 1959. Cause of wear in sheep's teeth. *Nature*. 184: 1583-1584.
- Baker, G., Jones, L.H.P. and Wardrop, I.D., 1961. Opal phytoliths and mineral particles in the rumen of the sheep. *Aust. J. Agric. Res.* 12: 462-472.

- Baker, G. and Leeper, G.W., 1958. Phytoliths in Victorian Soils. *Aust. J. Sci.*, 21: 84.
- Bamber, R.K. and Lanyon, J.W., 1960. Silica deposition in several woods of New South Wales. *Tropical Woods*, No. 113, 48-53.
- Barkworth, M.E. and Everett, J., 1986. Evolution in the Stipeae: Identification and relationships of its monophyletic taxa. *Int. Grass Symp. Ch.23*: 251-264.
- Bartoli, F., 1983. The Biogeochemical Cycle of Silicon in Two Temperate Forest Ecosystems. *Environmental Biogeochemistry Eco1. Bull. (Stockholm)* 35: 469-476.
- _____. 1985. Crystalllochemistry and surface properties of biogenic opal. *Journal of Soil Science*, 36: 335-350.
- Bartoli, F. and Guillet, B., 1977. Etude comparee des diagrammes phytolithiques et polliniques d'un podzol des Vosges greuses. (Comparative study of pollen and phytolith diagrams from a podzol on the Vosages sandstone.) *Comptes Rendus Academie des Sciences*, Paris, Series D, 284(5):353-356. French. Translated by Judith Gennett (1/81) and Susan Mulholland (8/83).
- Bartoli, F., Monrozier, L.J. and Rapaire, J.L., 1980. Sur la stabilisation des matieres organiques azotees par les mineraux silico-alumineux dans les podzols: phytolithes et argiles. (On the stabilization of nitrogenous organic compounds by silico-aluminous minerals in podzols: phytoliths and clays.) *Comptes Rendus Academie des Sciences*, Paris, Series D, 291:183-186. French. Translated by Dora Schneider and Susan Mulholland (8/83).
- Bartoli, F. and Selmi, M., 1977. Sur l'evolution du silicium vegetal en milieux pedogenetiques aeres acides. (Dynamics of plant silicon in aired acid soils of temperate regions.) *Comptes Rendus Academie des Sciences*, Paris, Series D, 284:279-282. French. Translated by Marlys Zoren and Susan Mulholland (8/83).
- Bartoli, F. and Wilding, L.P., 1980. Dissolution of Biogenic Opal as a Function of its Physical and Chemical Properties. *Soil Sci. Soc. Am. J.*, 44: 873-878.
- Bartolome, J.W., Klullert, E. and Barry, W.J., 1986. Opal phytoliths as evidence for displacement of native Californian grassland. *Madrono*, 33: 217-222.
- Beadle, N.C.W., Evans, O.D., and Carolin R.C., 1972. *Flora of the Sydney Region*. A.H. & A.W. Reed: Sydney.
- Beavers, A.H. and Stephen, I., 1958. Some features of the distribution of plant opal in Illinois soils. *Soil Science*, 86: 1-5.

- Bell, M.K., 1974. Decomposition of Herbaceous Litter, p37-67, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol.1, Academic Press, London and New York, 775pp.
- Bembrick, C., Herbert, C., Scheibner, E. and Stuntz, J., 1980. Structural Subdivision of the Sydney Basin. In Herbert, C and Helby, R. (Eds.) *A Guide to the Sydney Basin* p2-9. Dept. of Min. Res., Geological Survey of New South Wales, Bull. 26. 603pp.
- Bennett, D.M. and Parry, D.W., 1980. Electron-probe microanalysis studies of Silicon in the elongating basal internodes of *Avena sativa* (L.), *Hordeum sativum* (Juss.) and *Triticum aestivum* (L.), *Ann. Bot.*, 45: 541-547.
- Birk, E.M., 1979a. Disappearance of overstory and understory litter in an open Eucalypt forest. *Aust. J. Ecol.*, 4: 207-222.
- _____ 1979b. Overstorey and understorey litter fall in a Eucalypt forest: spatial and temporal variability. *Aust. J. Bot.*, 27: 145-156.
- Birk, E.M. and Simpson, R.W., 1980. Steady state accumulation and the continuous input model of litter accumulation and decomposition in Australian Eucalypt forests. *Ecol.*, 61: 481-485.
- Bishop, P.M., Mitchell, P.B. and Paton, T.R., 1980. The formation of duplex soils on hillslopes in the Sydney Basin, Australia. *Geoderma*. 23: 175-189.
- Blackman, E., 1968. The Pattern and Sequence of Opaline Silica Deposition in Rye. (*Secale cereale* L.), *Ann. Bot.*, 32: 207-218.
- _____ 1969. Observations on the development of the silica cells of the leaf sheath of wheat (*Triticum aestivum*). *Can. J. Bot.* 47: 827-838.
- _____ 1971. Opaline Silica Bodies in the Range Grasses of southern Alberta. *Canadian J. Bot.*, 49: 769-781.
- Blackman, E. and Parry, D.W., 1968. Opaline silica deposition in rye (*Secale cereale* L.). *Annals of Botany*, 32: 199-206.
- Blong, R.J., Riley, S.J. and Crozier, P.J., 1982. Sediment yield from runoff plots following bushfire near Narrabeen Lagoon, NSW. *Search*. 13: 36-38.
- Boland, D., 1984. *Forest Trees of Australia*. 4th Ed., CSIRO/Thomas Nelson, Melbourne.
- Bonnett, O.T., 1972. Silicified cells of grasses: A major source of plant opal in Illinois soils. *Bull. 742, Illinois Agric. Expt. Station*.

- Boswell, P.G.H., 1961. *Muddy Sediments: Some Geotechnical Studies for Geologists, Engineers and Soil Scientists.* W Heffer and Sons Ltd., Cambridge. 140 pp.
- Bowdery, D., 1984. Phytoliths: A Multitude of Shapes. Unpubl. BA hons. Thesis, Dept. Prehistory and Anthropology, ANU, Canberra, Australia. 85pp.
- _____. 1989. Phytolith analysis: Introduction and Applications. In: *Plants in Australian Archaeology*. Eds: W. Beck, A. Clarke and L. Head. Tempus: Archaeology and Material Culture Studies in Anthropology. 1: 161-196.
- Bozarth, S.R., 1986. Morphologically distinctive *Phaseolus*, *Cucurbita* and *Helianthus Annuus* phytoliths. In: Rovner, I. (Ed.), *Plant Opal Phytolith Analysis in Archaeology and Paleoecology*. Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, NC. Occasional Papers No. 1 of The Phytolitharien, pp 56-68.
- Bozarth, S.R., 1988. Preliminary opal phytolith analysis of modern analogs from Parklands, Mixed Forest and selected conifer stands in Prince Albert National Park, Saskatchewan. *Current Research in the Pleistocene*. 5: 45-46.
- Brandenburg, D.M., Russell, S.D., Estes, J.R. and Chissoe, W.F., 1985. Backscattered electron imaging as a technique for visualizing silica bodies in grass. *Scanning Electron Microscopy*, IV: 1509-1517.
- Bray, J.R. and Gorham, E., 1964. Litter production in forests of the world. *Adv. in Ecological Res.*, 2: 101-157.
- Brewer, R., 1955. Mineralogical examination of a Yellow Podzolic Soil formed on Granodiorite. *Soil Pub.* No 5: CSIRO., Melb.
- _____. 1955. The occurrence of Diatom skeletons and Sponge Spicules in the soil of New South Wales. *Aust. J. Sci.* 17: 177-179.
- _____. 1956. Diatom Skeletons and Sponge Spicules in soils. *Aust. J. Sci.*, 18: 197-198.
- Brewer, R. and Haldane, A.D., 1957. Preliminary experiments in the development of clay orientation in soils. *Soil Sci.*, 84: 301-309.
- Brown, A.D., 1984. Prospects and Limits of a Phytolith Key for Grasses in the Central United States. *J. Arch. Sc.* 11: 345-368.
- _____. 1986. Taxonomy of a midcontinent grasslands phytolith key. In: Rovner, I. (Ed.), *Plant Opal Phytolith Analysis in Archaeology and Paleoecology*. Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, NC. Occasional Papers No. 1 of The Phytolitharien, pp 89-102.

- Brown, D.A., Campbell, K.S.W. and Crook, K.A.W., 1977. *The geological evolution of Australia and New Zealand*. Pergamon Press.
- Brydon, J.E., Dore, W.G. and Clark, J.S., 1963. Silicified Plant Asterosclereids preserved in soil. *Soil Sci. Soc. Proc.* 27: 476-477.
- Buchanan, R.A., 1980. The Lambert Peninsula, Ku-ring-gai Chase National Park. Physiography and the distribution of Podzols, with details of the swamp vegetation and sediments. *Proc. Linn. Soc. N.S.W.*, 104: 73-93.
- Burgess, J.S., Olive, L.J., and Reiger, W.A., 1980. Sediment discharge response to fire in small selected catchments - Eden, N.S.W. *Hydro1. Symp.*, Adelaide.
- Bureau of Meteorology 1988. *Climatic Averages Australia*. Dept. Science and Consumer Affairs. Aust. Gov. Printer, Canberra.
- Carbone, V.A., 1977. Phytoliths as paleoecological indicators. In: W. Newman and B Salwin, (Eds). *Amerinds and their Paleoenvironments in Northeastern America*. Annals of the New York Academy of Sciences, 288: 194-205.
- Carroll, D.C., 1931. Mineralogy of the fine sand fractions of some Australian soils. *J. Roy. Soc. W. Aust.*, 18: 125.
- Central Mappin Authority of N.S.W. 1974. Cubbo 8736-N 1:50,000 map sheet, Bathurst.
- Chapman, G.A. and Murphy, C.L., 1989. *Soil Landscapes of the Sydney 1:100 000 sheet*. Soil Conservation Service Of New South Wales, Sydney.
- Cheeney, R.F., 1983. *Statistical methods in geology for field and lab decisions*. George Allen and Unwin, London. 169pp.
- Chen, C.H. and Lewin, J., 1969. Silicon as a nutrient element for *Equisetum arvense*. *Canadian J. of Botany*, 47: 125-131.
- Cheney, N.P., Raison, R.J. and Khana, P.K., 1980. Release of carbon to the atmosphere in Australian vegetation fires. In: G.I. Pearman (Ed.), *Carbon Dioxide and Climate: Australian Research*. Aust. Acad. Sci. Canberra, pp153-158.
- Clifford, H.T. and Watson, L., 1977. *Identifying grasses: Data, methods and illustrations*. University of Queensland Press, St. Lucia.
- Clinnick, P.F., 1984. A Summary-Review of the effects of fire on the soil environment. *Technical Report Series*, Soil Conservation Authority, Victoria.
- Clinnick, P.F. and Willat, S.T., 1981. Soil physical properties measured in an 'ashbed' following windrow burning. *Aust. For.* 44(3): 185-189

- Clough, A.F., 1969. The Lower Namoi Soil Conservation District. *J. Soil Con. Serv. N.S.W.*, 25(3): 205-218.
- Collins, S.M., Gifford, J.A., Rapp, G.R., Jr., and Thomson, M.C., 1980. Phytolith systematics (a systematic study of phytoliths). Paper, Society for American Archaeology, 45th Annual Meeting, Philadelphia, Pennsylvania. *Program and Abstracts*, p 45.
- Conaghan, P.J., 1980. The Hawkesbury Sandstone: Gross Characteristics and Depositional Environment. In: Herbert, C and Helby, R. (Eds.) *A Guide to the Sydney Basin*, p188-253. Dept. of Min. Res., Geological Survey of New South Wales, Bull. 26. 603pp.
- Conaghan, P.J. and Jones, J.G., 1975. The Hawkesbury Sandstone and the Brahmaputra: a depositional model for continental sheet sandstones. *J. Geol. Soc. Aust.*, 22(3): 275-283.
- Coventry, R.J., Holt, J.A. and Sinclair, D.F., 1988. Nutrient cycling by Mound-building Termites in Low-fertility soils of Semi-arid Tropical Australia. *Aust. J. Soil Res.* 26: 375-390.
- Cunningham, G.M., Mulham, W.E., Milthorpe, P.L. and Leigh, J.H., 1981. *Plants of Western New South Wales*. N.S.W. Government Printing Office.
- Curtis, Y., 1975. Soil-vegetation relationships in the Cypress Pine forests of the Pilliga region. Unpubl. BSc Hons. Thesis, University of New England.
- Dahlgren, R.M.T. and Clifford, H.T., 1982. *The Monocotyledons: A comparative study*. Academic Press, London.
- Davidson, J., 1964. The effect of certain *Eucalyptus* species on the redistribution of nutrients in the poorer surface soils of the Pilliga region. Unpubl. BSc. Hons. Thesis, University of New England.
- Dayanandan, P., Kaufman, P.B. and Franklin, C.I., 1983. Detection of silica in plants. *American Journal of Botany*, 70: 1078-1084.
- de Jersey, N.J., 1971. Early Jurassic miospores from the Helidon sandstone. *Geo. Surv. of Queensland, Queensland Dept. Mines*. Publ. No. 351, Palaeontol. Papers No. 25, 49pp.
- Dickinson, C.H., 1974. Decomposition of Litter in Soil, p633-658, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol.2, Academic Press, London and New York, 775pp.
- Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vols.1 and 2, Academic Press, London and New York, 775pp.

- Division of Soils, C.S.I.R.O., 1983. *Soils: an Australian viewpoint.* C.S.I.R.O.: Melbourne/Academic Press : London. 928pp.
- Dodson, J.R. and Wright, R.V.S., 1989. Humid to Arid to Subhumid Vegetation Shift on Pilliga Sandstone, Uluungra Springs, New South Wales. *Quaternary Research* 32: 182-192.
- Dormaar, J.F. and Lutwick, L.E., 1969. Infrared spectra of humic acids and opal phytoliths as indicators of paleosols. *Canadian J. Soil Sci.*, 49: 29-37.
- Dowes, R.G. and Sleeman, J.R., 1955. *The Soils of the Macquarie Region.* CSIRO Soil Publication No. 4.
- Duchaufour, P., 1977. *Pedology: pedogenesis and classification.* Translated by T.R. Paton, 1982. George Allen & Unwin.
- Dunger, 1956. Quoted in D.J.L. Harding and R.A. Stuttard, Microarthropods, pp 489-554, In: C.H. Dickinson and G.J.F. Pugh, (Eds), *Biology of Plant Litter Decomposition.* Vol 2. 1974, Academic Press.
- Duvigneaud, P., (Ed), 1971. *Productivity of forest ecosystems.* Proceedings of the Brussels symposium organized by UNESCO and the International Biological Programme. (27-31 October 1969). UNESCO, Paris, 1971. 707pp.
- Edwards, C.A., 1974. Macroarthropods, p533-554, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol.2, Academic Press, London and New York, 775pp.
- Ehrenberg, C.G., 1841. Über Verbreitung und Einfluss des mikroskopischen Leben in Sud und Nordamerika. *Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin.* pp 139-144.
- _____. 1846. Über die Vulkanischen Phytolitherien der Insel Ascension. *Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin.* pp 191-202.
- _____. 1854. *Mikrogeologie.* Leipzig. Leopold Voss. 2 vol.
- Eisenbeis, G. and Wichard, W., 1987. *Atlas on the Biology of Soil Arthropods.* Springer-Verlag, Berlin. 437pp.
- Elgawhary, S.M. and Lindsay, W.L., 1972. Solubility of silica in soils. *Soil Sci. Soc. Am. Proc.*, 36: 439-442.
- Evans, L.J., 1982. Dating methods of Pleistocene deposits and their problems: VII. Paleosols. *Geoscience Canada*, 9: 155-160.
- Fehrenbacher, J.B., White, J.L., Beavers, A.H. and Jones R.L., 1965. Loess composition in southeastern Illinois and southwestern Indiana. *Soil Sc. Soc. Am. Proc.*, 29: 572-579.

- Finch, E.M., 1974. An improved method of mounting palaeontological specimens for SEM examination. *Palaeontology*, 17: 431-434.
- Floyd, A.G., 1966. Fire and weed seed germination in forests. *Aust. J. Bot.*, 14: 243-256.
- Folger, D.W., Burckle, L.H. and Heezen, B.C., 1967. Opal phytoliths in a North Atlantic dust fall. *Science*, 155: 1243-1244.
- Folk, R.L. 1980. *Petrology of sedimentary rocks*. Hemphill Pub. Co., Texas, 3rd Ed.
- Forestry Commission, 1986. *Management Plan for Pilliga Management Area*. Forestry Commission of New South Wales.
- Fox, B.J., Fox, M.D. and McKay, G.M., 1979. Litter accumulation after fire in a Eucalypt forest. *Aust. J. Bot.*, 27: 157-168
- Frankland, J.C., 1974. Decomposition of Lower Plants, p3-36, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol.1, Academic Press, London and New York, 775pp.
- Fredlund, G., 1986. Problems in the simultaneous extraction of pollen and phytoliths from clastic sediments. In: I. Rovner (Ed.), *Plant Opal Phytolith Analysis in Archaeology and Paleoecology*. Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, N.C., Occasional Papers No. 1 of the Phytolitharion, pp 102-111.
- French J.R.S. and Keirle, R.M., 1969. Studies in fire damage radiata pine plantations. *Aust. For.*, 33: 175-180.
- Frey-Wyssling, A., 1930. Über die Ausscheidung der Kiesel säure in der Pflanz. *Ber. dt. Bot. Ges.*, 48: 179-183.
- Frohnmyer, M., 1914. Die Entstehung und Ausbildung der Kieselzellen bei Gramineen. *Biblthea Bot.*, 21: 1-41.
- Gambert, F., 1914. Survey MS: 1033 Me, Report No. 14/46, 24 Dec. 1914. Lands Board.
- Geis, J.W., 1973. Biogenic silica in selected species of deciduous angiosperms. *Soil Sci.* 116: 113-118.
- _____. 1978. Biogenic opal in three species of Gramineae. *Ann. Bot.* 42: 1119-1129.
- _____. 1984. Characteristics of biogenic opal silica in Angiosperms and Coniferous trees. Paper, Annual Meeting of the American Association for the Advancement of Science, 1984, Detroit. Partially published in *Phytolitharion Newsletter*, Vol. 4(2), 3-10. Tables omitted.

Geis, J.W. and Jones, R.L., 1973. Ecological significance of biogenic opaline silica. In: D. L. Dindal, Proc. First soil Microcommunities Conf., USAEC, Office of Inf. Ser., Conf-711076, National Tech. Inf. Serv., USDC, Springfield, Va. pp74-85.

Gill, E.D., 1967. Stability of biogenic opal. *Science*, 158: 810.

Gill, E.D. and Segnit, E.R., 1976. Memorial of George Baker. *American Mineralogist*, 61: 519-522.

Gilmour, J.S.L. and Walters, S.M., 1964. Philosophy and Classification. *Vistas in Botany*, 4: 1-22.

Goldschmidt, V.M., 1937. The principles of distribution of chemical elements in minerals and rocks. *J. Chem. Soc.*, 139: 655-673.

Gould, W.D., Anderson, R.V., McClellan, J.F., Coleman, D.C. and Gumsey, J.L., 1979. Characterisation of a paleosol: Its biological properties and effect on overlying soil horizons. *Soil Science*, 128: 201-210.

Greenwood, R., 1973. Cristobalite: its relationship to chert formation in selected samples from the deep sea drilling project. *J. Sed. Pet.*, 43 (3): 700-708.

Grobt, A., 1897. Beiheft zur Anatomie der Epidermis der Gramineenblaetter. *Bibl. Bot.*, Stuttgart, 7: (36).

Grove, T.S., O'Connell, A.M. and Dimmock, G.M., 1986. Nutrient changes in surface soils after an intense fire in jarrah (*Eucalyptus marginata* Donn ex Sm.) forest. *Aust. J. Ecol.* 11: 303-317.

Hallsworth, E.G., 1963. An examination of some factors affecting the movement of clay in an artificial soil. *J. Soil Sc.*, 14: 360-371.

Hallsworth, E.G., Costin, A.B. and Gibbons, F.R., 1953. Studies in Pedogenesis in New South Wales VI. On the classification of soils showing features of podzol morphology. *J. Soil Sci.*, 4(2): 241-256.

Hallsworth, E.G. and Waring, H.D., 1964. Studies in pedogenesis in New South Wales. VII. An alternative hypothesis for the formation of the solodized-solonetz of the Pilliga District. *J. Soil Sci.*, 15(2): 158-177.

Handreck, K.A., 1968. Silica in the soil-plant system. Unpublished M.Agr.Sc. Thesis, Melb. Uni.

Handreck, K.A. and Jones, L.H.P., 1967. Uptake of monosilicic acid by *Trifolium incarnatum* (L). *Aust. J. Biol. Sci.*, 20: 483-484.

- Handreck, K.A. and Jones L.H.P., 1968. Studies of Silica in the oat plant. IV. Silica content of plant parts in relation to stage of growth, supply of silica and transpiration. *Plant and Soil*, 29: 449-459.
- Hannon, J.H., 1958. The status of nitrogen in the Hawkesbury Sandstone soils and their plant communities in the Sydney district. II. The distribution and circulation of nitrogen. *Proc. Linn. Soc. N.S.W.* 83: 65-85.
- Hart, D.M., 1988a. The plant opal content in the vegetation and sediment of a swamp at Oxford Falls, New South Wales, Australia. *Australian Journal of Botany*, 36: 159-170.
- _____ 1988b. A safe method for the extraction of plant opal from sediments. *Search*, 19: 293-294.
- _____ 1990. Occurrence of the "Cyperaceae-type" Phytolith in Dicotyledons. *Aust. Syst. Bot.*, 3: 745-750.
- _____ 1991. Vegetation changes in the Pilliga Forests: A preliminary evaluation of the evidence. In: *Vegetation and Climate Interactions in Semi-arid Areas*. Eds: A. Henderson-Sellers and A.J. Pitman, Kluwer Academic Publications B V, The Netherlands. (with E.H. Norris and P.B. Mitchell).
- Hatch, A.B., 1955. The influence of plant litter in the jarrah forests of the Dwellingup region of Western Australia. *For. Timber Bureau Aust. Leaflet No. 70*.
- Herbert, C. and Helby R., 1980. *A Guide to the Sydney Basin*. Dept. Mineral Resources, Geological Survey of New South Wales, Bulletin No. 26.
- Hodson, M.J. and Sangster, A.G., 1988. Silica deposition in the inflorescence bracts of wheat (*Triticum aestivum*). I. Scanning electron microscopy and light microscopy. *Can. J. Bot.*, 66: 829-838.
- _____ 1989. Silica deposition in the inflorescence bracts of wheat (*Triticum aestivum*). II. X-ray microanalysis and backscattered electron imaging. *Can. J. Bot.*, 67: 281-287.
- _____ 1990. Techniques for the microanalysis of higher plants with particular reference to silicon in cryofixed wheat tissues. *Scanning Microscopy*, 4: 407-418.
- Holmes, W.B.K., Holmes, F.M. and Martin, H.A., 1982. Fossil *Eucalyptus* remains from the Middle Miocene Chalk Mountain Formation, Warrumbungle Mountains, New South Wales. *Proc. Linn. Soc. N.S.W.*, 106(4): 299-310.
- Howell, J., 1991. Pers. Comm. Botanic Gardens, Sydney, N.S.W.

- Huber, J.K., 1986. Extraction of opal phytoliths from peat samples. *Phytolitharien Newsletter*, 4(3): 4-6.
- Hubble, G.D. and Isbell, R.F., 1983. Eastern Highlands (VI). In: Division of Soils, CSIRO, *Soils: An Australian viewpoint*. CSIRO/Academic Press.
- Humphreys, G.S., 1976. Podzols at Deep Creek and Mougamarra: Their distribution and significance in relation to landscape evolution. Unpubl. BSc Hons. Thesis, Macquarie University, Sydney, N.S.W.
- _____. 1981. The rate of ant mounding and earthworm casting near Sydney, New South Wales. *Search*. 12: 129-131.
- _____. 1984. The environment and soils of Chimbu Province, Papua New Guinea, with particular reference to soil erosion. *Res. Bull.* No 35, Land Utilization Section, Dept Primary Industry, Port Moresby.
- _____. 1985. Bioturbation, rainwash and texture contrast soils; an evaluation of transporting processes on soil genesis in the Sydney Basin. Unpubl. PhD. Thesis, Macquarie University, Sydney, N.S.W.
- Humphreys, G.S. and Mitchell, P.B., 1983. A preliminary assessment of the role of bioturbation and rainwash on sandstone hillslopes in the Sydney Basin. In: Young, R.W. and Nanson, G.C., (Eds.), *Aspects of Australian Sandstone Landscapes*. Aust. and NZ Geom. Gp. Spec. Publn. No. 1. pp 66-80.
- Hunt, P.A., 1985. The Mobility of Silicon and Iron in the near-surface zone; A re-evaluation of the concept of Duricrust in Central and Eastern New South Wales. Unpubl. PhD. Thesis, Macquarie University, Sydney, N.S.W.
- Ikeya, M. and Golson, J., 1985. ESR dating of phytoliths (plant opal) in sediments: a preliminary study. In: M. Ikeya and T. Miki, (Eds.), *ESR Dating and Dosimetry*, Ionics Pub. Co., Ltd., Tokyo, Japan. pp. 281-285.
- Iler, R.K., 1974. *The Chemistry of Silica: Solubility, Polymerization, Colloid and Surface Properties, and Biochemistry*. J. Wiley-Interscience Publ. J. Wiley and Sons, N.Y. 866pp.
- Jemmett, G. and Owen, J.A.K., 1990. Where has all the pollen gone? *Review of Palaeobotany and Palynology*. 64: 205-211.
- Jenny, H., Gessel, S.P. and Bingham, F.T., 1949. Comparative study of decomposition of organic matter in temperate and tropical regions. *Soil Science*, 68: 419-432.
- Jensen, H.I., 1912. *The Agricultural Prospects and Soils of the Pilliga Scrub*. Farmers' Bulletin No. 54, Dept. of Agriculture.

- Jensen, H.I., 1914. *The Soils of New South Wales*. Dept. of Agriculture Govt. Printer.
- Jensen, V., 1974. Decomposition of Angiosperm Tree Leaf Litter, p69-104
In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974.
Biology of Plant Litter Decomposition, Vol. 1, Academic Press, London and New York, 775pp.
- Jones, C.A., 1985. *C4 Grasses and Cereals. Growth, Development and Stress Response*. John Wiley & Sons. N.Y.
- Jones, G.J., 1988. A simplified procedure for the extraction of silica and calcium oxalate phytoliths from plant tissue.
Phytolitharien Newsletter, 5(3): 9-10.
- Jones, J.B., Sanders, J.V. and Segnit, E.R., 1964. Structure of opal, *Nature*, Dec. 5, 990-991.
- Jones, L.H.P. and Handreck, K.A., 1965. Studies of silica in the oat plant. III. Uptake of silica from soils by the plant.
Plant and Soil, 13: 79-95.
- _____
1967. Silica in soils, plants and animals. *Advances in Agronomy*, 19: 107-149.
- _____
1969. Uptake of silica by *Trifolium incarnatum* in relation to the concentration in the external solution and to transpiration. *Plant and Soil*, 30: 71-80.
- Jones, L.H.P. and Milne, A.A., 1963. Studies of silica in the oat plant. 1. Chemical and physical properties of the silica. *Plant and Soil*. 18: 207-219.
- Jones, L.H.P., Milne, A.A. and Sanders, J.V., 1966. Tabashir: an opal of plant origin. *Science*, 151: 464-466.
- Jones, L.P.H., Milne, A.A. and Wadham, S.M., 1963. Studies of silica in the oat plant. *Plant and Soil*, 18: 358-371.
- Jones, J.B., Sanders, J.V. and Segnit, E.R., 1964. Structure of opal. *Nature*, : 990-991.
- Jones, J.B. and Segnit, E.R., 1969. Water in sphere-type opal.
Min. Mag., 37: 357-361.
- Jones, R.L., 1964. Note on occurrence of opal phytoliths in some Cenozoic sedimentary rocks. *J. of Paleontology*, 38: 773-775.
- _____
1969. Determination of opal in soil by alkaline dissolution analysis. *Proc. S. S. S. Amer.* 33: 976-978.
- Jones, R.L. and Beavers, A.H., 1963a. Sponge spicules in Illinois soils. *Soil Sci. Soc. Am. Proc.*, 27: 438-440.

- Jones, R.L. and Beavers, A.H., 1963b. Microfossils in Wisconsinan loess and till from Western Illinois and Eastern Iowa. *Science*, 140: 1222-1224.
- _____
1963c. Some mineralogical and chemical properties of plant opal. *Soil Sci.* 96: 375-379
- _____
1964a. Aspects of catenary and depth distribution of opal phytoliths in Illinois soils. *Proc. Soil Sci. Soc. Am.* 28: 413-416.
- _____
1964b. Variation of opal phytolith content among some Great Soil Groups in Illinois. *Soil Sci. Soc. Am. Proc.*, 28: 711-712.
- Jones, R.L. and Hay, W.W., 1975. Bioliths. In: *Soil Components Vol. 2*, J.E. Giesking (Ed), Springer-Verlag, Ch. 14, 481-496.
- Jones, R.L., Hay, W.W. and Beavers, A.H., 1963. Microfossils in Wisconsinan loess and till from Western Illinois and Eastern Iowa. *Science*, 141: 1222-1224.
- Jorgensen, S.S., 1970. The application of alkali dissolution techniques in the study of Cretaceous flints. *Chem. Geol.*, 6: 153-163.
- Kaarik, A.A., 1974. Decomposition of Wood, p129-174, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition, Vol. 1*, Academic Press, London and New York, 775pp.
- Kalisz, P.J. and Stone, E.L., 1984. The longleaf pine islands of the Ocala National Forest, Florida: A soil study. *Ecology*, 6: 1743-1754.
- Kanno, I. and Arimura, S., 1955. A pedological investigation of the Japanese volcanic-ash soils. X. On the primary minerals, 2. Occurrence of Pele's tears in the fine sand fraction. *J. Sci. Soil and Manure, Japan*, 26: 41-45.
- _____
1958. Plant opal in Japanese soils. *Soil and Plant Food*, 4: 62-67.
- Kaplan, L. and Smith, M.B., 1980. Procedures for phytolith reference materials. *Society for American Archaeology*, 45th Annual Meeting, Philadelphia, Pennsylvania.
- Kaufman, P.B., Bigelow, W.C., Schmid, R. and Ghosheh, N.S., 1971. Electron microprobe analysis of silica in epidermal cells of *Equisetum*. *Amer. J. Bot.*, 58: 309-316.
- Kaufman, P.B., Bigelow, W.C., Petering, L.B. and Drogosz, F.B., 1969. Silica in developing epidermal cells of *Avena* Internodes: Electron Microprobe Analysis. *Science*, 166: 1015-1017.

- Kaufman, P.B., Dayanandan, P., Takeoka, Y., Bigelow, W.C., Jones, J.D. and Iler, R., 1981. Silica in shoots of higher plants.
In: Simpson T.L. and Volcani, B.E., Eds. Silicon and Siliceous Structures in Biological Systems, Springer-Verlag, NY. 587pp, Chapter 15, 409-449.
- Kemp, E.M., 1978. Tertiary climatic evolution and vegetative history in the southeast Indian Ocean region. *Paleogeog. Paleoclimatol. Paleoecol.*, 24: 169-208.
- Khanna, P. K. and Raison, R. J., 1986. Effect of fire intensity on solution chemistry of surface soil under a *Eucalyptus pauciflora* forest. *Aust. J. Soil Res.*, 24: 423-434.
- Klein, R. L. and Geis, J.A., 1978. Biogenetic silica in the Pinaceae. *Soil Sci.*, 126: 145-156.
- Klukkert, S., 1987. Technical Topics. *The Phytolitharion Newsletter*, 4(3): 3.
- Kolbe, R.W., 1957. Fresh-water diatoms from Atlantic deep-sea sediments. *Science*, 126: 1053-1056.
- Kondo, R., 1976. Opal phytoliths of tree origin. *Pedologist*, 20: 176-185.
- _____. 1977. Opal phytoliths, inorganic biogenic particles in plants and soils. *Japan Agric. Res. Quarterly*, 11: 198-203.
- _____. 1988. Soil Genesis and Ages of Soils from the Viewpoint of Opal Phytolith Analysis. *Pedologist*, 32(2): 189-203. Japanese. Translated by Paul Hesse.
- Kondo, R. and Iwasa, Y., 1981. Biogenic Opals of Humic Yellow Latosol and Yellow Latosol in the Amazon Region. *Res. Bull. Obihiro Univ.*, 12: 231-239.
- Kondo, R. and Sase, T., 1986. Opal Phytoliths, their characteristics and application. *Quaternary Research*, 25(1): 31-63 (Japanese).
- Knox, A.S., 1942. The use of bromoform in the separation of noncalcareous microfossils. *Science*, 95: 307-308.
- Krauskopf, K.B., 1956. Dissolution and precipitation of silica at low temperatures. *Geochim. et Cosmochim. Acta*, 10: 1-26.
- Kubienna, W.L. 1938. *Micropedology*. Collegiate Press, Ames. Iowa. 243pp
- Kurmann, M. H., 1985. An opal phytolith and palynomorph study of extant and fossil soils in Kansas (USA). *Palaeogeography, Palaeoclimatology, Palaeoecology*. 49: 217-235.

Lands Department. 1978. Portion Plans, County of Baradine, Parish of Dunwerian.

1914. Topographic Survey of part of the Pilliga Scrublands. County of Baradine, Parishes Cumbill, Coomore, Coomore South, Euligal. Land District of Narrabri. Ms. 1032. Me.

Lamb, R.J., 1985. Litter fall and nutrient turnover in two Eucalypt woodlands. *Aust. J. Bot.*, 33: 1-14.

Lanning, F.C., 1966. Silica and calcium deposits in the tissues of certain plants. *Adv. Frontiers Plant Sci.*, 13: 339-343.

Lanning, F.C. and Eleuterius, L.N., 1987. Silica and Ash in Native Plants of the Central and Southeastern Regions of the United States. *Annals of Botany*, 60: 361-375.

Lanning, F.C., Hopkins, T.L. and Loera, J.C., 1980. Silica and ash content and depositional patterns in tissue of mature *Ze a mays* L. plants. *Ann. Bot.*, 54: 549-554.

Lanning, F.C., Ponnaiya, B.W.X. and Crumpton, C.F., 1958. The chemical nature of silica in plants. *Plant Physiology*, 33: 339-344.

Lee, K.E. and Correll, R.L., 1978. Litter fall and its relationship to nutrient cycling in a South Australian dry sclerophyll forest. *Aust. J. Ecol.*, 3: 243-252.

Lee, K.E. and Wood, T.G., 1971. *Termites and Soils*. Academic Press, London. 251 pp.

Leeper, G.W., 1955. Diatom Skeletons and Sponge Spicules in Soils. *Aust. J. Sci.*, 18: 59-60.

Leeper, G.W., Nicholls, A, and Wadham, S.M., 1936. Soil and pasture studies in the Mt. Gellibrand area, Western District of Victoria. *Proc. Roy. Soc. Vic.*, 49: 77-138.

Lewin, J. and Reimann, B.E.F., 1969. Silicon and plant growth. *Ann. Rev. Plant Physic.*, 20: 289-304.

Locker, S. and Martini, E., 1986. Phytoliths from the Southwest Pacific, Site 591. in *Initial Reports DSDP, Leg 90, Noumea, New Caladonia to Wellington, New Zealand, Part 2*. US Government Printing Office, UK distributors, IPOD Committee, NERC, Swindon, pp 1079-1084.

Lofty, J.R., 1974. Oligochaetes. p467-488, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol.2, Academic Press, London and New York, 775pp.

Lonsdale, W.M., 1988. Predicting the amount of litterfall in forests of the World. *Annals of Botany*, 61: 319-324.

- Lovering, T.S., 1958. Geological significance of accumulator plants in rock weathering. *Science*, 127: 1061-1062.
- _____. 1959. Significance of accumulator plants in rock weathering. *Bul. Geol. Soc. Am.*, 70: 781-800.
- Lovering, T.S. and Celeste Engel, 1967. Translocation of silica and other elements from rock into *Equisetum* and three grasses. *Prof. Papers, US Geo. Survey* 18: No 594-B, B1-B16.
- Lovelock, J.E., 1983. Gaia as seen through the atmosphere. In: P. Westbroek and E.W. de Jong, (Eds.), *Biomineralization and Biological Metal Accumulation*. D. Reidel Publ. Co. pp 15-25.
- McDonald, R.C., Isbell, R.F., Speight, J.G., Walker, J. and Hopkins, M.S., 1984. *Australian soil and land survey field handbook*. Inkata Press, Melbourne.
- MacLean, D.A. and Wein, R.W., 1978. Weight loss and nutrient changes in decomposing litter and forest floor material in New Brunswick forest stands. *Can. J. Bot.* 56: 2730-2749.
- McManus, W.R., Anthony, R.G., Grout, L.L., Malin, A.S. and Robinson, V.N.E., 1979. Biocrystallization of mineral material on forage plant cell walls. *Aust. J. Agric. Res.*, 30: 635-649.
- Margulis, L. and Stoltz, J.F., 1983. Microbial Systematics and a Gaian view of sediments. In: Westbroek and E.W. de Jong, (Eds.), *Biomineralization and Biological Metal Accumulation*. D. Reidel Publ. Co. pp 27-54.
- Mason, C.F., 1974. Mollusca, p555-591, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol.2, Academic Press, London and New York, 775pp.
- Maynard, N.G., 1976. Relationship between diatoms in surface sediments of the Atlantic Ocean and the biological and physical oceanography of overlying waters. *Paleobiology*, 2: 99-121.
- Mayr, E., 1982. *The Growth of Biological Thought. Diversity, Evolution and Inheritance*. Harvard University Press, Cambridge, Massachusetts. 974pp.
- Mehra, P.N. and Sharma, O.P., 1965. Epidermal silica cells in the Cyperaceae. *Botan. Gaz.*, 126: 53-58.
- Melia, M.B., 1984. The distribution and relationship between palynomorphs in aerosols and deep-sea sediments off the coast of Northwest Africa. *Marine Geology*, 59: 345-371.
- Metcalf, C.R., 1960. *Anatomy of the Monocotyledons. I. Gramineae*. Clarendon Press, Oxford.

- Metcalf, C.R., 1971. *Anatomy of the Monocotyledons. V. Cyperaceae.* Clarendon Press, Oxford.
- Metcalf, C.R. and Chalk, L., 1950. *Anatomy of the Dicotyledons.* OUP London, 1500pp.
- _____
1983. *Anatomy of the Dicotyledons, Vol. 2, 2nd Ed.* Clarendon Press. Ox.
- Millar, C.S., 1974. Decomposition of Coniferous Leaf Litter, p105-128 In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition, Vol. 1,* Academic Press, London and New York, 775pp.
- Miller, R.B., 1971. Forest productivity in the temperate-humid zone of the Southern Hemisphere. In: Duvigneaud, P., (Ed), 1971. *Productivity of forest ecosystems.* Proceedings of the Brussels symposium organized by UNESCO and the International Biological Programme. (27-31 October 1969). UNESCO, Paris, 1971. 299-305.
- Mitchell, P.B., 1985. Some Aspects of the Role of Bioturbation in Soil Formation in South Eastern Australia. Unpublished PhD Thesis, Macquarie University, N.S.W.
- Mitchell, P.B. and Humphreys, G.S., 1987. Litter dams and microterraces formed on hillslopes subject to rainwash in the Sydney Basin, Australia. *Geoderma*, 39: 331-357.
- Mitchell, P.B., Rundle, A.S., and Students. 1982. *Land systems of the Pilliga region, N.S.W.*, Unpubl. report to the New South Wales National Parks and Wildlife Service, Macquarie University.
- Moore, P.D., 1978. Botanical fingerprints. *Nature*, 274: 18
- Moulton, T.P., 1982. The effect of prescribed burning and simulated burning on soil and litter arthropods in open forest at Cordeaux, N.S.W., Australia. Unpublished PhD Thesis, Macquarie University, Sydney.
- Mulholland, S.C., 1982. Various wet-ashing procedures for phytolith extraction from plants. *Phytolitharien Newsletter*, 1 (3): 5.
- _____
1983. Zinc Bromide Heavy Liquid Preparation. Technical Topic. *Phytolitharien Newsletter*. 3(2): 3-5 (1985).
- _____
1984. Classification of grass silica phytoliths. Abstract. *Phytolitharien Newsletter*. 3 (1): 6-7.
- _____
1986. Classification of grass silica phytoliths. In: I. Rovner (Ed.), *Plant Opal Phytolith Analysis in Archaeology and Paleoecology.* Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, N.C., Occasional Papers No. 1 of the Phytolitharien, pp 123-129.

- Mulholland, S.C., 1987. Phytolith Studies at Big Hidatsa, North Carolina. Unpubl. PhD Thesis, University of Minnesota.
- Mulholland, S.C., Huber, J.K., Rapp, G., Jr., Thomson, M.C. and Gifford, J.A., 1982. Techniques of phytolith analysis. Poster Session, Society for American Archaeology, 47th Annual Meeting, Minneapolis, Minnesota.
- Mulholland, S.C. and Rapp, G., Jr., 1985. Grass silica phytoliths. *Society for Archaeological Sciences Newsletter*, Research Report 5, 8 (2): 5-6.
- Murray, J. and Irvine, R., 1891. On silica and the siliceous remains of organisms in modern seas. *Proc. Roy. Soc. Edin.*, 33: 229-250.
- Netolitzky, F., 1929. Die Kieselkorper. In: *Linsbauer's Handbuch der Pflanzenanatomie*, Vol. 3., Part 1a, pp1-19. Berlin.
- New South Wales Land Dept. 1970. Aerial Photographs, Baradine, Run 3, 1677: 5105.
- Nicholls, A., 1936. The mineralogy of the sand fractions of some Victorian soils. *Proc. Roy. Soc. Vic.* 49:17-35.
- _____. 1939. Tech. note: Some application of mineralogy to soil studies. *J. Aust. Inst. Ag. Sci.*, 5: 218-221.
- Norgren, J.A., 1973. Distribution and significance of plant opal in Oregon soils. Thesis, Oregon State University, Corvallis, Oregon. 165pp.
- Norris, E.H., 1987. Opaline silica bodies in *Stipa* L. (Poaceae). Unpublished MS, 10pp.
- _____. 1991. Pers. Comm. Botanic Gardens, Sydney, N.S.W.
- Norris, E.H., Mitchell, P.B. and Hart, D.M., 1991. Vegetation changes in the Pilliga forests: a preliminary evaluation of the evidence. In: A. Henderson-Sellers and A.J. Pitman (Eds). *Vegetation and climate interactions in semi-arid regions*. Kluwer Academic Publishers, Belgium. *Vegetatio*, 91: 209-218.
- Northcote, K.H., 1965. *A Factual Key for the Recognition of Australian Soils*. CSIRO Aust. Div. Soils Divl. Report No 2/65.
- _____. 1966. *Atlas of Australian Soils: Sydney-Canberra-Bourke-Armidale*. With explanatory data. CSIRO and Melbourne University Press.
- _____. 1974. *A Factual Key for the Recognition of Australian Soils*. CSIRO and Rellim Technical Publications. 4th Ed.
- Norton, B.E., 1966. Occurrence of silica in *Lepidosperma limicola* Wakefield. *Aust. J. Sci.*, 29: 371-372.

Oberholster, R.E., 1968. A method for separation of plant opal in soils
South African Journal of Agricultural Science, 11:743-748

O'Connell, A.M., 1987. Litter decomposition, soil respiration and soil chemical and biochemical properties at three contrasting sites in karri (*Eucalyptus diversicolor* F. Muell.) forests of south-western Australia. *Aust. J. Ecol.*, 12: 31-40.

Okamoto, G., Okura, T. and Goto, K., 1957. Properties of silica in water. *Geochim. et Cosmochim. Acta*, 12: 123-132.

Ollendorf, A.L., Mulholland, S.C. and Rapp, G. Jr., 1987. Phytoliths from some Israeli sedges. *Israel Journal of Botany*, 36: 125-132.

Olson, J.S., 1963. Energy storage and the balance of producers and decomposers in ecological systems. *Ecology*, 44: 322-331.

O'Neill, C.H., Hodges, G.M., Riddle, P.N., Jordan, P.W., Newman, R.H., Flood, R.J. and Toulson, E.C., 1980. A fine fibrous silica contaminant of flour in the high oesophageal cancer area of north-east Iran. *Int. J. Cancer*, 26: 617-628.

Outhred, R., Lainson, R., Lamb, R. and Outhred, D., 1985. A floristic survey of Ku-ring-gai Chase National Park. *Cunninghamia*, 1 (3): 313-339.

Oyama, M. and Takehara, H., 1970. *Revised Standard Soil Color Charts*. Frank McCarthy Color P/L, Victoria, Australia.

Palmer, P.G. 1976. Grass Cuticles: a new paleoecological tool for East African lake sediments. *Can. J. Bot.* 54: 1725-1734.

Palmer, P.G. and Tucker, 1981. SEM survey of the epidermis of E African Grasses. *Smithsonian Contribs. to Bot.* 49.

_____. 1983. SEM survey of the epidermis of E African Grasses. *Smithsonian Contribs. to Bot.* 53.

Parmenter, C and Folger, D.W., 1974. Eolian Biogenic Detritus in Deep Sea Sediments: A Possible Index of Equatorial Ice Age Aridity. *Science*, 185: (4152): 695-698.

Parry, D.W. and Smithson, F., 1957. Detection of opaline silica in grass leaves. *Nature*, 179: 975-976.

_____. 1958a. Techniques for studying opaline silica in grass leaves. *Ann. Bot.*, 22: 543-549.

_____. 1958b. Silicification of Buliform Cells in grasses. *Nature*, 181: 1549-1550.

_____. 1958c. Silicification of branched cells in the leaves of *Nardus stricta* L. *Nature*, 182: 1460-1461

- Parry, D.W. and Smithson, F., 1963. Influence of mechanical damage on opaline silica deposition in *Molinia caerulea* L. *Nature*, 199:925-926.
- _____
1964. Types of opaline silica depositions in the leaves of British grasses. *Ann. Bot.*, 28: 169-185.
- _____
1966. Opaline Silica in the Inflorescences of some Britsh Grasses and Cereals. *Ann. Bot.* 30: 525-538.
- Parry, D.W., Hodson, M.J. and Newman, R.H., 1985: The distribution of silicon deposits in the fronds of *Pteridium aquilinum* L. *Ann. Bot.*, 55: 77-83.
- Parry, D.W., Hodson, M.J. and Sangster, A.G., 1984. Some recent advances in studies of silicon in higher plants. *Philosophical Transactions of the Royal Society of London*. Series B, 304: 537-549.
- Parry, D.W. and Kelso, M., 1975. The distribution of Silicon deposits in the roots of *Molinia caerulea* (L.) Moench. and *Sorghum bicolor* (L.) Moench., *Ann. Bot.*, 39: 995-1001.
- Paton, T.R., 1978. *The Formation of Soil Material*. George Allen and Unwin, London. 143 pp.
- Pearsall, D.M., 1977. Maize and beans in the Formative period of Ecuador: Preliminary Report of new evidence. Paper presented at the 42nd Annual Meeting of the Society for American Archaeology, New Orleans.
- _____
1978. Phytolith analysis of archaeological soils: Evidence for maize cultivation in Formative Ecuador. *Science*, 199: 177-178.
- _____
1987. Evidence for prehistoric maize cultivation on raised fields at Penon del Rio, Guyas, Ecuador. In: W.M. Denevan, K. Mathewson, G. Knapp, (Eds.), *Pre-Hispanic agricultural fields in the Andean region*. 279-295. BAR International Series 359(i), Oxford.
- _____
1989. *Paleoethnobotany: a handbook of procedures*. Academic Press, Inc, San Deigo, California.
- Pearsall, D.M. and Trimble, M.K., 1983. Phytolith analysis of soil samples. Report 18 In: Clark, J.T. and Kirch, P.V. (Eds) *Archaeological investigations of the Mudlane-Waimea-Kawaihae Road Corridor, Island of Hawai'i*. Dept. of Anthropoligy, Bernice P. Bishop Museum and Dept. of Transportation, Highways Division, State of Hawai'i. Report 83-1
- Pease, A., 1967. Opal phytoliths as indicators of paleosols. Thesis, New Mexico State University, University Park, New Mexico. 81pp.

- Pedley, L., 1981. Preface. In: M.H. Simmons, *Acacias of Australia*. Vol 1. Nelson, Melbourne.
- Peinemann, N., Tschapet, M. and Grassi, R., 1970. Properties of phytoliths. *Zeitschrift fur Pflanzenernahrung und Bodenkunde*, 127: 126-133.
- Peterson, I., 1983. Plant Stones. *Science News*, 124: 88-94.
- Pidgeon, I.M., 1938. The ecology of the central coast area of New South Wales. II. Plant succession on the Hawkesbury Sandstone. *Proc. Linn. Soc. N.S.W.* 63: 1-26.
- Piperno, D.R., 1983. The application of phytolith analysis to the reconstruction of plant subsistence and environments in prehistoric Panama. Unpubl. PhD Thesis. Philadelphia: Temple University.
- _____
1985. Phytolith analysis of geological sediments from Panama. *Antiquity*, LIX: 13-19.
- _____
1986. A survey of phytolith production and taxonomy in non-graminaceous plants: Implications for paleoecological reconstruction. In Rovner, T. (Ed.) *Plant Opal Phytolith Analysis in Archaeology and Paleoecology*. Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, North Carolina. Occasional Papers No. 1 of The Phytolitharien. pp 35-40.
- _____
1987. *Phytolith Analysis; An Archaeological and Geological Perspective*. Academic Press, Inc, San Deigo. 278pp.
- Pokras, E.M. and Mix, A.C., 1985. Eolian evidence for spatial variability of late Quaternary climates in tropical Africa. *Quaternary Research*, 24(2): 137-149.
- de Pomar, H.B., 1972. Opalo organogeno en sedimentos superficiales de la Ilanura Santafesina. (Biogenous opaline particles found in superficial sediments from the Santa Fe Province plains) *Ameghiniana*, 9: 265-279. Spanish. Selected portions translated by R. Judge.
- Poore, R.Z., Steinmetz, J.C. and Schrader, H.J., 1979. Biostratigraphic Summary of DSDP Leg 49, eastern North Atlantic. In: *Initial Reports of the DSDP Leg 49, Aberdeen, Scotland to Funchal, Madeira*. 1976. Scripps Inst. of Oceanography, UK distributors IPOD Committee, NERC, Swindon, pp 851-858.
- Popper, K.R., 1972. *Objective Knowledge An Evolutionary Approach*. Oxford University Press, Oxford. 380pp.
- Powers, A. H. and Gilbertson, D.D., 1987. A Simple Preparation Technique for the Study of Opal Phytoliths from Archaeological and Quaternary Sediments. *J. Archaeol. Sc.*, 14: 529-535.

- Prat, H., 1936. La Systematique des graminees. *Ann. Sci. Nat. Bot.*, 10, Ser. T18: 165-258.
- _____. 1948. General features of the epidermis in *Zea mays*. St. Louis, Missouri, Botanical Garden. *Annals of the Missouri Botanical Garden*, 35: 341-351.
- Prescott, J.A., 1931. The soils of Australia in relation to vegetation and climate. *CSIR Bull.* No. 52.
- Pressland A.J., 1982. Litter production and decomposition from an overstory of *Eucalyptus* spp. on two catchments in the New England region of New South Wales. *Aust. J. Ecol.*, 7: 171-180.
- Raeside, J.D., 1970. Some New Zealand Plant Opals. *N.Z. J. Sci.*, 13: 122-132.
- Raison, R.J., 1980. A review of the role of fire in nutrient cycling in Australian native forests, and of methodology for studying the fire-nutrient interaction. *Aust. J. Ecol.*, 5: 15-21.
- Raison, R.J., Woods, P.V., Jakobsen, B.F., and Bary, G.A.V., 1986. Soil temperatures during and following low-intensity prescribed burning in a *Eucalyptus pauciflora* forest. *Aust. J. Soil Res.*, 24: 33-47.
- Rapp, G.R., Jr., 1986. Comments on a phytolith research agenda. In: Rovner, T. (Ed.) *Plant Opal Phytolith Analysis in Archaeology and Paleoecology*. Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, North Carolina. Ocassional Papers No. 1 of The Phytolitharien. pp 132-137.
- Rattel, C., 1984. Extraction of opal phytoliths from plant samples. *Phytolitharien Newsletter*, 2(3): 7-8.
- Retallack, G., 1981. Fossil soils: Indicators of ancient terrestrial environments. In: K.J. Niklas (Ed), *Paleobotany, paleoecology and evolution*. 1: 55-102, Praeger Publishers, New York.
- Roberts, W.B., 1965. Soil temperatures under a pile of burning logs. *Aust. For. Res.*, 1(3): 21-25.
- Robertson, A.I. and Duke, N.C., 1987. Insect herbivory on mangrove leaves in North Queensland. *Aust. J. Ecol.*, 12: 1-7.
- Robinson, G.W., 1950. Some considerations on soil classification. *J. Soil Science.*, 1(2): 150-155.
- Robinson, L., 1991. *Field Guide to the Native Plants of Sydney*. Kangaroo Press, 448pp.

- Rogers, R.W. and Westman, W.E., 1977. Seasonal nutrient dynamics of litter in a subtropical Eucalypt forest, North Stradbroke Island. *Aust. J. Bot.*, 25: 47-58.
- Rolls, E.C., 1981. *A million wild acres*. Nelson, Melbourne.
- Rovner, I., 1971. Potential of Opal Phytoliths for use in Paleocological reconstruction. *Quaternary Research*, 1: 343-359.
- _____. 1972. Note on a safer procedure for opal phytolith extraction. *Quaternary Research* 2(4): 591.
- _____. 1983. Plant opal phytolith analysis: major advances in archeobotanical research. *Adv. Arch. Meth. and Theory*, 6: 225-266.
- _____. 1986. Downward percolation of phytoliths in stable soils: a non-issue. pp23-28, In: Rovner, T. (Ed.) *Plant Opal Phytolith Analysis in Archaeology and Paleoecology*. Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, North Carolina. Ocassional Papers No. 1 of The Phytolitharion. 147pp.
- _____. 1987. Macro- and Micro-ecological Reconstruction using Plant Opal Phytolith Data from Archaeological Sediments. unpublished Ms.
- Rovner, I. and Noguera, J.Z., 1986. Miscellaneous modifications of phytolith laboratory procedures. *Phytolitharion Newsletter*, 4 (1): 5-6.
- Ruprecht F., 1866. Geobotanical investigations on chernozem. *Acad. Sci. USSR*.
- Russ, J.C. and Rovner, I., 1987. Stereology of Microfossils: A successful test of computer-assisted image analysis using opal phytoliths. Paper presented at the International Union for Quaternary Research XII International Congress, July 31 - August 9, 1987, Ottawa, Canada.
- Sangster, A.G., 1968. Studies of opaline deposits in the leaf of *Sielingia decumbens* L. "Berh.", using the Scanning Electron Microscope. *Annals of Botany*, 32: 237-240.
- _____. 1970a. Intracellular silica deposits in immature leaves in three species of the Gramineae. *Ann. Bot.*, 34: 245-257.
- _____. 1970b. Intracellular silica deposits in mature and senescent leaves of *Sieglingia decumbens* (L.) Bernh. *Ann. Bot.*, 34: 557-570.
- _____. 1983. Anatomical features and silica deposition patterns in the rhizomes of the grasses *Sorghastrum nutans* and *Phragmites australis*. *Can. J. Bot.*, 61: 752-761.

- Sangster, A.G., 1985. Silicon Distribution and Anatomy of the Grass Rhizome, with Special Reference to *Miscanthus sacchariflorus* (Maxim.) Hackel. *Ann. Bot.*, 55: 621-634.
- Sangster, A.G. and Hodson, M. J., 1986. Silica in Higher Plants. *Ciba Found. Symp.* 121: 90-111.
- Sangster, A.G. and Parry, D. W., 1969. Some Factors in Relation to Bulliform Cell Silicification in the Grass Leaf. *Ann. Bot.*, 33: 315-323.
- _____
1971. Silica Deposition in the Grass Leaf in Relation to Transpiration and the Effect of Dinitrophenol *Ann. Bot.*, 35: 667-677.
- _____
1976a. Endodermal silicon deposits and their linear distribution in developing roots of *Sorghum bicolor* (L.) Moench. *Annals of Botany*, 40: 361-371.
- _____
1976b. Endodermal silicification in mature nodal roots of *Sorghum bicolor* (L.) Moench. *Annals of Botany*, 40: 373-379.
- _____
1976c. The ultrastructure and electron-probe microassay of silicon deposits in the endodermis of seminal roots of *Sorghum bicolor* (L.) Moench. *Annals of Botany*, 40: 447-459.
- _____
1981. Ultrastructure of silica deposits in higher plants. In: Simpson, T. L., and Volcani, B. E., (Eds.) *Silicon and Siliceous Structures in Biological Systems*. Springer-Verlag, NY, 587 pp. Ch. 14, 383-407.
- Sangster, A.G., Hodson, M.J., Parry, D.W. and Rees, J.A., 1983. A developmental study of silicification in the Trichomes and associated epidermal structures of the Inflorescence Bracts of the grass, *Phalaris canariensis* L., *Ann. Bot.*, 52: 171-187.
- Sase, T., 1981. Analytical study of plant opal in the buried soil immediately beneath the Hachinohe pumice bed. *The Quaternary Research (Jap.)* 20: 15-20.
- Sase, T., Kato, Y. and Makino, S., 1985. Plant opal analysis of volcanic ash soils at the foot of Mt. Fuji and Mt. Amogi. *Pedologist*, 29: 44-59.
- Satchell, J.E., 1974. Litter - Interface of Animate/Inanimate Matter, pxi-xiv, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol. 1, Academic Press, London and New York, 775pp.
- Scotter, D.R., 1970. Soil temperatures under grass fires. *Aust. J. Soil Res.*, 8: 273-279.
- Scurfield, G., Anderson, C.A. and Segnit, E.R., 1974. Silica in Woody Stems. *Aust. J. Bot.*, 22: 211-229.

- Selkirk, D.R. and Adamson, D.A., 1982. Microfossils. In: W. Ambrose and P. Duerden (Eds), *Archaeometry: an Australasian perspective*. 197-210, Department of Prehistory, Australian National University, Canberra.
- Shkolnik, M., 1984. Trace Elements in Plants. *Developments in Crop Science*, 6: Elsevier, Amsterdam, 463pp.
- Simpson, T.L. and Volcani, B.E., (Eds)., 1981. *Silicon and Siliceous Structures in Biological Systems*. Springer-Verlag, NY. 587pp.
- Smith, M.S., Thomas, G.W., White, R.E. and Ritonga, D., 1985. Transport of *Escherichia coli* through intact and disturbed soil columns. *J. Environ. Qual.*, 14: 87-91.
- Smithson, F., 1956a. Silica Particles in some British Soils. *J. Soil Sci.*, 7: 122-128.
- _____ 1956b. Plant Opal in Soil. *Nature*, 178: p107.
- _____ 1958. Grass Opal in British Soils. *J. Soil Sci.*, 9: 148-155
- _____ 1959. Opal Sponge Spicules in Soils. *J. Soil Sci.*, 10: 105-109.
- _____ 1961. The Microscopy of the Silt Fraction. *J. Soil Sci.*, 12: 145-157.
- Soil Conservation Service of New South Wales, 1978. *Narrabri Technical Manual*. Govt. Printer.
- Soil Survey Staff, 1975. *Soil Taxonomy*. Agricultural Handbook No 436. United States Department of Agriculture, Washington, DC.
- Specht, R.L., 1970. Vegetation. In: G.W. Leeper, (Ed.), 4th Ed. *The Australian Environment*. CSIRO and Melbourne Uni. Press, Melbourne.
- Springett, J.A., 1976. The effect of prescribed burning on the soil fauna and on litter decomposition in Western Australian forests. *Aust. J. Ecol.*, 1: 77-82.
- Stabell, B., 1986. Variations of diatom flux in the eastern equatorial Atlantic during the last 400,000 years ("Meteor" cores 13519 and 13521). *Marine Geology*, 72: 305-323.
- Stace, H.C.T., Hubble, G.D., Brewer, R., Northcote, K.H., Sleeman, J.R., Mulcahy, M.J. and Hallsworth, E.C., 1968. *A Handbook of Australian Soils*. Rellim Technical Publications, Glenside, South Australia. 483 pp.
- Stebbins, G.L., 1981. Coevolution of grasses and herbivores. *Ann. Missouri Bot. Gard.* 68: 75-86.
- Stephens, C.G., 1953. *A Manual of Australian Soils*. CSIRO.

- Stephens, C.G., 1961. *The Soil Landscapes of Australia*. CSIRO Soil Publication No. 18.
- Sterling, C., 1967. Crystalline silica in plants. *Amer. J. Bot.*, 54: 840-844.
- Stout, J.D., 1974. Protozoa. In: C.H. Dickinson and G.J.F. Pugh, (Eds) *Biology of Plant Litter Decomposition*, Vol. 2, 385-420, Academic Press.
- Struve, G.A., 1835. De silica in plantis nonnullis. Dissertation, Berlin.
- Suess, E., 1966. Opal Phytoliths. Unpubl. M.Sc. Thesis Kansas State Uni.
- Suffling, R. and Smith, D.W., 1974. Litter decomposition studies using mesh bags: spillage inaccuracies and the effects of repeated artificial drying. *Can. J. Bot.*, 52: 2157-2163.
- Swindale, L.D., 1960. Experimental pedology in columns of unsaturated soils. *N.Z. Soc. Soil Sci. Proc.* 4: 36-38.
- Takahashi, E. and Miyake, Y. 1977. Silica and plant growth. *Proc. Int. Seminar on soil environment and fertility management in intensive agriculture*, Tokyo, Japan, 603-612.
- Teller, H.L., 1967, quoted in Clinnick, P.F., 1984. *A summary-review of the effects of fire on the soil environment*. Tech. Report. Series, Soil Conservation Authority. Govt. Printer. 24pp.
- Thompson, C.H. and Paton, T.R., 1966. Some morphological characteristics of the solonetz-soloth soils of Queensland. Australian Soil Science Conference, 1966, University of Queensland, St. Lucia, Queensland.
- Trudgill, S.T., 1988. *Soil and Vegetation Systems*. (2nd Ed). Clarendon Press, Oxford. 211 pp.
- Twiss, P. C., 1978. Use of Grass Phytoliths in archaeologic geology *Geol. Soc. Am. Abstr.* 10: 507.
- _____
1980. Opal Phytoliths as indicators of C₃ and C₄ grasses. *Geol. Soc. Am. Abstr.* 12: 17.
- _____
1984. Morphology of opal phytoliths in C₃ and C₄ grasses. Paper, Phytolith Research Workshop, Raleigh, North Carolina. Abstract, *Phytolitharien Newsletter*, 3 (1): 9.
- _____
1986. Morphology of opal phytoliths in C₃ and C₄ grasses. In: Rovner, T. (Ed.) *Plant Opal Phytolith Analysis in Archaeology and Paleoecology*. Proceedings of the 1984 Phytolith Research Workshop, North Carolina State University, Raleigh, North Carolina. Occassional Papers No. 1 of The Phytolitharien. pp 4-11.

- Twiss, P.C., Suess, E. and Smith, R.M., 1969. Morphological Classification of Grass Phytoliths. *Proc. S.S.S. Am.* 33: 109-115.
- Tyurin, I.V., 1937. On the biological accumulation of silica in soils *Prob. Soviet Soil Sci.*, 4: 3-23.
- Verma, S.D. and Rust, R.H., 1969. Observations on opal phytoliths in a soil biosequence in Southeastern Minnesota. *Soil Sci. Soc. Am. Proc.*, 33: 749-751.
- Vinten, A.J.A. and Nye, P.H., 1985. Transport and deposition of dilute colloidal suspensions in soils. *J. Soil. Sci.*, 36: 531-541.
- Waid, J.S., 1974. Decomposition of Roots, p175-211, In: Dickinson, C. H. and Pugh, G. J. F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol. 1, Academic Press, London and New York, 775pp.
- Walker, J. and Hopkins M.S., 1984. Vegetation. In: R.C. McDonald, R.F. Isbell, J.G. Speight, J. Walker and M.S. Hopkins (Eds.), *Australian Soil and Land Survey Field Handbook*. Inkata Press. 160pp.
- Walker, P.H., 1972. A Soil Survey of the County of Cumberland Sydney Region NSW. *Soil Survey Unit Bull. No 2*. NSW Dept. Ag.
- Walsh, R.P.D. and Voigt, P.J., 1977. Vegetation litter: an under-estimated variable in hydrology and geomorphology. *J. of Biogeography*, 4: 253-274.
- Warburton, B.G., 1956. Soil conservation on the north-west slopes and plains. *J. Soil Con. Ser. N.S.W.*, 12(3): 132-139.
- Waring, H.D., 1950. The pedogenesis of the soils of the Pilliga Scrub area, north-west New South Wales, and the relation of soils to vegetation and land use. Unpubl. BSc. Hons. Thesis, University of Sydney.
- Weaver, F.M. and Wise, S.W., 1972. Ultramorphology of deep sea Cristobalitic chert. *Nature Physical Science*, 237:56-57.
- Webb, L.J., Tracey, J.G., Williams, W.T. and Lance, G.N., 1969. The pattern of mineral return in leaf litter of three subtropical Australia forest. *Aust. Forestry*, 33: 99-110.
- Welle, B.J.H. Ter., 1976. Silica grains in woody plants of the Neotropics, especially Surinam. In: Baas, P., Bolton, A. J. and Catling, D.M., (Eds.) *Wood Structure in Biological and Technological Research*. Leiden University Press (Leiden Botanical Series No. 3), 107-142, 280pp.

- Westbroek, P. and De Jong, E.W., 1983. (Eds). *Biomineralization and biological metal accumulation. Biological and Geological Perspectives*. Papers presented at the Fourth International Symposium in Biominerlization, Renesse, The Netherlands, June 2-5, 1982.
- White, R.E., 1985. The influence of macropores on the transport of dissolved and suspended matter through soils. *Advances in Soil Sci.*, 3: 95-120.
- White, M.E., 1986. *The Greening of Gondwana*. Reed Books Pty. Ltd., Sydney.
- Whittaker, R.H. and Woodwell, G.M., 1971. Measurement of net primary production of forests. In: Duvigneaud, P., (Ed), 1971. *Productivity of forest ecosystems*. Proceedings of the Brussels symposium organized by UNESCO and the International Biological Programme. (27-31 October 1969). UNESCO, Paris, 1971. 159-175.
- Wieder, R.K. and Lang, G.E., 1982. A critique of the analytical methods used in examining decomposition data obtained from litter bags. *Ecology*, 63: 1636-1642.
- Wilding, L.P., 1967. Radiocarbon dating of biogenic opal. *Science*, 156: 66-67.
- Wilding, L.P., Brown, R.E. and Holowaychuk, N., 1967. Accessibility and properties of occluded carbon in biogenic opal. *Soil Sci.*, 103: 56-61.
- Wilding, L.P. and Drees, L.R., 1971. Biogenic opal in Ohio soils. *Soil Sci. Soc. Amer. Proc.* 35: 1004-1010.
- _____. 1973. Scanning Electron Microscopy of opaque opaline forms isolated from forest soils in Ohio. *Soil Sci. Soc. Amer. Proc.* 37: 647-650.
- _____. 1974. Contributions of forest opal and associated crystalline phases to fine silt and clay fractions of soils. *Clays and Clay Minerals*. 22: 295-306.
- Wilding, L.P., Hallmark, C.T. and Smeck, N.E., 1979. Dissolution and stability of biogenic opal. *Soil Sci. Soc. Am. J.* 43: 800-802.
- Wilding, L.P., Smeck, N.E. and Drees, L.R., 1977. Silica in soils: Quartz, Cristobalite, Tridymite and Opal. In: Dinaver, R.C. et.al. (Eds), *Minerals in Soil Environments*., Ch.14 *Soil. Sci. Soc. Am.*, Madison, pp471-552.
- Williams, M.A.J., Assefa, G. and Adamson, D.A., 1986. Depositional context of Plio-Pleistocene hominid-bearing formations in the Middle Awash valley, Southern Afar Rift, Ethiopia, In: L.E. Frostick, R.W. Renaut, I. Reid and J.J. Tiercelin, (Eds). *Sedimentation in the African Rifts*, Geological Society Special Publication No. 25: 241-251.

- Williams, S.T. and Gray, T.R.G., 1974. Decomposition of Litter on the Soil Surface, p611-632, In: Dickinson, C.H. and Pugh, G.J.F., (Eds.), 1974. *Biology of Plant Litter Decomposition*, Vol.2, Academic Press, London and New York, 775pp.
- Wilson, S.M., 1982. Phytolith evidence from Kuk, an early agricultural site in the Papua New Guinea Highlands. Unpubl. LittB. Thesis, Departments of Geography and Prehistory and Anthropology, Australian National University, Canberra.
- _____
1985. Phytolith analysis at Kuk, an early agricultural site in Papua New Guinea. *Archaeology in Oceania*, 20: 90-97.
- Witty, J.E. and Knox, E.G., 1964. Grass opal in some Chestnut and Forested soils in North Central Oregon. *Proc. Soil Sci. Soc. Am.* 28: 685-687.
- Woods, R.V. and Raison, R.J., 1982. An appraisal of techniques for the study of litter decomposition in Eucalypt forests. *Aust. J. Ecol.*, 7: 215-225.
- _____
1983. Decomposition of litter in sub-alpine forests of *Eucalyptus delegatensis*, *E. pauciflora* and *E. dives*. *Aust. J. Ecol.*, 8: 287-299.
- Yeck, R.D. and Fenton, G., 1967. Preliminary studies of opaline phytoliths from selected Oklahoma soils. *Proc. of the Okla. Acad. of Sci. for 1967.*, 48: 112-116.
- Yeck, R.D. and Gray, F., 1967. Preliminary studies of Opaline Phytoliths from selected Oklahoma Soils. *Proc. of the Oklahoma Acad. of Sci. for 1967*, 48: 112-116.
- _____
1972. Phytolith size characteristics between Udolls and Ustolls. *Proc. Soil Sci. Soc. Am.*, 36: 639-641.
- Yoshida, S., Ohnishi, Y. and Kitagishi K., 1959. The chemical nature of silicon in rice plant. *Soil and Plant Food*, 5: 23-27
- _____
1962. Histochemistry of silicon in rice plant, 1. A new method for determining the localization of silicon within plant tissues. *Soil Sci. and Plant Nutrition* 8: 30-35.
- _____
1962. Chemical forms, mobility and deposition of silicon in rice plant. *Soil Sci. and Plant Nutrition*, 8: 15-21.
- van Zon, H.J.M., 1980. The transport of leaves and sediment over a forest floor. *Catena*, 7: 97-110.