

## CURRICULUM VITA

### **SMITH, Clifford W.**

#### Degrees

BSc (Hons) U.C.N.W. Bangor, Wales 1962

MSc Manchester UK 1963

PhD Manchester UK 1965

#### Employment

Fattorini & Son, Birmingham, UK 1958-59

Visiting Asst. Prof. in Botany, UHM 1966-67

Research Assoc., Princeton University, 1966-67

Asst. Prof. in Botany, UHM 1967-70

Assoc. Prof. in Botany, UHM 1970-86

Acting Assoc. Dean (Programs and Curriculum) UHM 1978

Prof. in Botany, UHM 1986-1997

Research Assoc. Natural History Museum, London 2001- present

CPSU Unit Leader UHM 1975-2000

PCSU Unit Leader, RCUH 1998-2002

PCSU, DoD Programs Manager, 2009-present

#### Appointments

Hawaiian Botanical Society, President 1968-71

Hawaii Science and Engineering Fair, Director, 1972-73

Hawaiian Botanical Society Newsletter, Editor, 1976-88

Island Plant Conservation Newsletter, Editor, 1987-90

Forestry Research Plan for the 80's Committee 1980

The Nature Conservancy, Science Advisory Committee 1980-85

The Nature Conservancy, Landmark Advisory Committee 1983-86

Hawaii Natural Area Reserve Commission 1984-94

Hawaii Animal Species Advisory Committee 1985-93, Chair 1988-93

Kahoolawe Reserve Commission, Technical Advisor 1996-97

National Park Service, Collaborator 1976-1988

..., Western Regional Advisory Board, 1986-2000

..., Working Group on Revegetation and Restoration 1987-93

National Resource Defense Council Advisory Committee (Hawaii) 1988-97

Botanical Society of America – Bryological and Lichen Committee 1988-92, Chair 1990-92

American Institute of Biological Sciences – General Chair Honolulu National mtg 1992

International Association of Lichenologists – N American Treasurer 1992-96

..., Conservation rep to IUCN 1992-present  
..., Asst. Editor, Newsletter, 1996-2002  
British Lichen Society, Assoc. Editor *Lichenologist* 1996-2001  
..., Council 2001-2006  
U.S. Congress, Office of Technology Assessment, Harmful Non-Indigenous Species in the US, 1990-93

## Publications

1965. Smith, C.W. 1965. Growth of excised embryo shoot apices of wheat *in vitro*. *Nature* **207**: 780-781.
1967. Smith, C.W. 1967, Excised embryo shoot apices of wheat cultivated in vitro. *Ann. Bot.* n.s. **31**: 593-605.
1968. Effect of growth-promoting substances on excised wheat embryo shoot apices. *Ann. Bot.* n.s. **32**: 593-600.
1969. Jacobs, P.W. & C.W. Smith. Transport of C<sup>14</sup> indoleacetic acid in developing bean hypocotyls. *Amer. J. Bot.* **56**: 492-497
1969. Jacobs, P.W. & C.W. Smith. IAA transport in developing bean embryos. In: *NATO Symposium on growth substances*. Izmir, Turkey.
1970. Smith, C.W. & L.F. Lew. Cellular arrangement in the node of various angiosperms. *Bot. Gaz.* **131**: 269-272.
1970. Smith, C.W. Lichens and air pollution in Hawaii. *Hawaiian Bot. Soc. Newsl.* **10**: 1-3.
1972. Siegel, S.M., & C.W. Smith. 1972. Notes on the biological activity of the noble gas xenon trioxide. *Space Life Sciences* 3: 206-264.
1973. Ueki, R. & C.W. Smith. The genus *Crepidotus* in Hawaii. *Canad. J. Bot.* 51: 1251-1254.
1973. Siegel, S.M., A. Eshleman, I. Umeno, N. Puerner & C.W. Smith. The general and comparative biology of toxic metals and their derivatives: Mercury and lead. In: *Proc. Workshop on Mercury in the Western Environment*. Continuing Education Publications.
1975. Yee, N.S. & C.W. Smith. The effect of coconut milk on the germination and growth of *Nephrolepis hirsutula* spores. *Amer. Fern J.* 65: 13-18.
1975. Smith, C.W. & S.M. Siegel. Differential permeation of *Artemia* cysts and cucumber seeds by alcohols. *J. Histochem. & Cytochem.*

1976. Bowler, PA, Smith, CW. *Ramalina farinacea* in Hawaii. - *The Bryologist* **79**: 499-501.
1977. Smith, CW. Notes on Hawaiian lichens I. Obligately foliicolous species. - *The Bryologist* **80**: 342-343.
1981. Smith, CW. [Review of:] C. B. Cook, P. W. Pappas & E. D. Rudolph (eds.): Cellular Interactions in Symbiosis and Parasitism. Ohio State University Press, Columbus. 1980. - *The Bryologist* **84**: 269-270.
1981. Smith, CW. Bryophytes and lichens of the Puhimau geothermal area, Hawaii Volcanoes National Park. - *The Bryologist* **84**: 457-466.
1984. Smith, CW. Hawaii's alectorioid lichens. - *Pacific Science* **38**: 249-252.
1986. Smith, CW. Three foliicolous lichens new to the United States. - *The Bryologist* **89**: 232-233.
1991. Smith, CW. Lichen conservation in Hawaii. - In: Galloway, DJ (ed.): *Tropical Lichens: Their Systematics, Conservation, and Ecology*. The Systematics Association Special Volume, Clarendon Press, Oxford, pp. 35-45.
1993. Smith, CW. Notes on Hawaiian parmelioid lichens. - *The Bryologist* **96(3)**: 326-332.
1993. Stenroos, S, Smith, CW. Notes on the amphipacific relations of Hawaiian Cladoniaceae. - *Tropical Bryology* **8**: 275-280.
1994. Purvis, OW, Smith, CW, James, PW. Studies in the lichens of the Azores. Part 2 - Lichens of the upper slopes of Pico Mountain. A comparison between the lichen floras of the Azores, Madeira and the Canary Islands at high altitudes [Estudo dos líquenes dos Açores. Parte 2 - Líquenes das encostas de altitude da montanha do Pico. Comparação entre as floras de líquenes de altitude das ilhas dos Açores, Madeira e Canárias]. - *Arquipélago* **12A**: 35-50.
1995. Smith, CW. Lichens as indicators of cloud forest in Hawai'i. - *Ecological Studies: Analysis and Synthesis* **110**: 309-314.
1995. Smith, CW. Notes on long-distance dispersal in Hawaiian lichens: ascospore characters. - *Cryptogamic Botany* **5(2)**: 209-213.
1997. Czeuczuga, B, Harada, H, Smith, CW. Carotenoids in some lichens from Hawaiian, Ogasawara (Bonin) and Mariana Islands (Pacific). - *Journal of the Hattori Botanical Laboratory* **80**: 263-271.

1997. Smith, CW, Gardner, DE, Hoe, WJ. Follicolous Hawaiian cryptogams. - *Abstracta Botanica* **21(1)**: 163-167.
1998. Meyer, J.-Y. & C.W. Smith. 9eds.) Proc. *First Regional Conf. on Miconia Control, August 26-29, 1997, Papaete, Tahiti*. Gov. de Polynésie française. Centre ORSTOM de Tahiti.
1999. Silva, L. & C.W. Smith. Germination of *Clethra arborea* an invader in Sao Miguel. *Actas do I Encontro Invasoras Lennhosas, 16-18 de Novembro de 1999, Gerês*. Sociedade Portuguesa de Ciências Floretais, ADERE, pp. 66-71.
1999. Silva, L., C.W. Smith, & J. Tavares. Difficulties in the biocontrol control of Macaronesia invaders. *Actas do I Encontro Invasoras Lennhosas, 16-18 de Novembro de 1999, Gerês*. Sociedade Portuguesa de Ciências Floretais, ADERE, pp. 110-116.
1999. Silva, L., C.W. Smith, & J. Tavares. Essays for the control of *Clethra arborea* and *Pittosporum undulatum*. *Actas do I Encontro Invasoras Lennhosas, 16-18 de Novembro de 1999, Gerês*. Sociedade Portuguesa de Ciências Floretais, ADERE, pp. 143-148.
1999. Silva, L., J. Tavares, & C.W. Smith. Luta química contra *Clethra arborea* and *Pittosporum undulatum*, uma invasora em Sao Miguel. IV Encontro Nacional de Protecção Integrada, 3 e 4 de Outubro de 1997. University of the Azores, Angra do Heroísmo. Pp. 439-445.
2000. Silva, L., J. Tavares & C.W. Smith. Biogeography of Azorean plant invaders. *Arquipélago – Life and Marine Sciences*. Sup 2A: 19-27
2001. Smith, CW. The lichen genus *Umbilicaria* in the Hawaiian Islands. - In: McCarthy, PM, Kantvilas, G, Louwhoff, SHJ (eds.): *Lichenological Contributions in Honour of Jack Elix*. Bibliotheca Lichenologica, J. Cramer, Berlin, Stuttgart, pp. 389-394.
2002. Kashiwadani, H, Smith, CW, Moon, KH. New species of Ramalina (Ascomycotina, Ramalinaceae) from the Hawaiian Islands. - *Journal of Japanese Botany* **77**: 351-355.
2004. Silva, L. & C.W. Smith. A characterization of the non-indigenous flora of the Azores Archipelago. *Biological Invasions*. 6: 193-204.
2006. Silva, L. & Smith C.W. A quantitative approach to the study of non-indigenous plants: an example from the Azores Archipelago. *Biodiversity and Conservation*, **15**: 1661-1679.
2006. Fox, R. L., Yost, R. S., Hue, N. V., Smith, C. W., Caldwell, R. M. Lichen sulfur contents as bioindicators of crop sulfur: deficiency or luxury uptake. - *Communications in Soil Science and Plant Analysis* **37(1-2)**: 13-24.

2009. C. W. Smith, A. Aptroot, B. J. Coppins, A. Fletcher, O. L. Gilbert, P. W. James and P. A. Wolseley (ed.): *The Lichens of Great Britain and Ireland*. British Lichen Society. 1046 x pp..
2009. O.L. Gilbert, A. Aptroot, C. W. Smith. *Stereocaulon*. Pp. xxx-xxx. In, *The Lichens of Great Britain and Ireland*. British Lichen Society. 1046 x pp. C. W. Smith, A. Aptroot, B. J. Coppins, A. Fletcher, O. L. Gilbert, P. W. James and P. A. Wolseley (ed.).
2009. S.H.J.J. Louwhoff, P.W. James, C. W. Smith. *Xanthoparmelia*. Pp. xxx-xxx. In, *The Lichens of Great Britain and Ireland*. British Lichen Society. 1046 x pp. C. W. Smith, A. Aptroot, B. J. Coppins, A. Fletcher, O. L. Gilbert, P. W. James and P. A. Wolseley (ed.).
2009. Price, J.P., J.D. Jacobi, L.W. Pratt, F.R. Warshauer & C.W. Smith. Protecting Forest Bird Populations across Landscapes. Pp. 381-404. In: *Conservation Biology of Hawaiian Forest Birds*. Ed. T.K. Pratt et al. Yale University Press, New Haven.