

TONY SWAIN 1922–1987



Tony Swain (left) with the present Editor-in-Chief (centre) and Dr E. C. Bate-Smith, CBE (right) taken on the occasion of the Annual Editorial Board meeting in 1980, which was held at Caius College, Cambridge to celebrate the 80th birthday of E.C.

This issue of *Phytochemistry* is affectionately dedicated to the memory of Professor Tony Swain, 1922–1987, founder editor of this Journal, by his many colleagues and friends in the world of plant science.

An obituary of Tony was published in the January 1988 issue (Vol. 27, pp. v–vi), giving a brief account of his scientific career. Here, it is appropriate to list some of his professional achievements, the books he edited and a personal selection of his more important research papers. These serve to indicate his major contributions to phytochemical knowledge but no written words can indicate the profound effect he had in encouraging the research efforts of his colleagues and students and all those who came into contact with him. We owe him an immense debt for initiating this Journal and setting the standard for quality and relevance, which we hope to continue in succeeding years.

PROFESSIONAL RECORD

B.Sc. (1943), Ph.D. (1948) University of London
M.A. (1965) Sc.D. (1970) University of Cambridge
Director of ARC Laboratory of Biochemical Systematics at Kew, 1970–1975
Professor of Biology, Boston University (1976–1986)
Visiting Professor at the Universities of Harvard, Hull and Yale
Executive Editor and Founder of the Journal *Phytochemistry* (1961–1987)
Executive Editor and Founder of the Journal *Biochemical Systematics and Ecology* (1973–1987)
Fellow of the American Academy of Arts and Sciences
Fellow of the Cambridge Philosophical Society
Fellow of the Linnean Society
Fellow of the Royal Society of Chemistry
Member of the Biochemical Society
Founder Member and First Secretary of the Phytochemical Society of Europe
Member and Editor of the Phytochemical Society of North America
Secretary of the IUPAC Commission for Chemical Plant Taxonomy (1965–1971)

BOOKS

1. Chemical Plant Taxonomy, 1963, Academic Press, 543 pp., editor.
2. Biosynthetic Pathways in Higher Plants, 1965, 212 pp., Academic Press, co-editor with J. B. Pridham.
3. Comparative Phytochemistry, 1966, Academic Press, 360 pp., editor.
4. Perspectives in Phytochemistry, 1969, Academic Press, 235 pp., co-editor with J. B. Harborne.
5. Comparative Biochemistry, Molecular Biology, Vol. 29A, Elsevier, 1974, 328 pp., co-author with M. Florkin.
6. Biochemistry of Plant Phenolics, 1979, 651 pp., Plenum Press, co-editor with J. B. Harborne and C. F. van Sumere.
7. The Resource Potential in Phytochemistry, 1980, Plenum Press, 215 pp., co-editor with R. Kleiman.
8. Chemically Mediated Interactions between Plants and other Organisms, 1986, Plenum Press, co-editor with G. Cooper-Driver and E. E. Conn.

SELECTED RESEARCH PAPERS

Cambridge (1949–1965)

- 1953 The flavonoid glycosides of *Dahlia variabilis*. I. General Introduction. *J. Chem. Soc.* 2764–2773 (with C. G. Nordstrom).
- 1953 Identification of coumarins and related compounds by filter paper chromatography. *Biochem. J.* **53**, 201–208.
- 1956 Leucoanthocyanins. in: The Chemistry of Vegetable Tannins, published by the Society of Leather Trades Chemists, pp. 109–120 (with E. C. B-S).
- 1957 Estimation of β -glucosidase. *Biochem. J.* **66**, 321–323 (with P. Baruah).
- 1959 Phenolic constituents of *Prunus domestica*. I. Quantitative Analyses. *J. Sci. Fd Agr.* **10**: 63–68 (with W. E. Hillis).
- 1959 Separation of anthocyanins from plant extracts. *Nature* **183**: 989 (with B. V. Chandler).
- 1960 Scopolin production in potato tubers infected with *Phytophthora infestans*. *Phytopathology* **15**: 398–400 (with J. C. Hughes).
- 1962 After-cooking blackening in potatoes. I. Introduction. *J. Sci. Fd Agr.* **13**: 224–229 (with J. C. Hughes and J. E. Ayers).
- 1962 Flavonoid compounds. in: Comparative Biochemistry, Vol. 3, Academic Press, pp. 755–809 (with E.C. B-S).
- 1964 The quantitative analysis of phenolic compounds. in: methods in polyphenol chemistry, pp. 131–146 (with J. L. Goldstein).
- 1965 Changes in tannins in ripening fruit. *Phytochemistry* **4**, 185–193 (with J. L. Goldstein).
- 1966 Flavan production in strawberry leaves. *Phytochemistry* **5**, 501–509 (with L. L. Creasy).

Royal Botanic Gardens, Kew (1970–1976)

- 1972 Metabolic fate of hydroxybenzoic acids in plants. *Z. Naturforsch.* **27b**: 943–946 (with G. C-D).
- 1973 Flavonoids as evolutionary markers in primitive tracheophytes. in: Nobel Symposium Vol. 25, Chemistry in Botanical Classification, pp. 81–92.
- 1973 Biochemical systematics of the Filicopsida. *Bot. J. Linn. Soc.* **67**: 111–134 (with G. C-D).
- 1975 Evolution of flavonoid compounds. In: The Flavonoids. Chapman & Hall, pp. 1096–1129.
- 1976 Cyanogenic polymorphism in bracken in relation to herbivore predation. *Nature* **260**, pp. 604 (with G. C-D).
- 1976 Angiosperm-reptile coevolution. In: 'Morphology and Biology of Reptiles', *Linn. Soc. Symp. No. 3*, pp. 107–122.
- 1977 Variation in flavonoid patterns in relation to chromosome changes in *Gibasis schiedeanae*. *Biochem. System Ecol.* **5**: 37–44 (with M. Martinez).
- 1977 Phenolic chemotaxonomy and phytogeography of *Adiantum*. *Bot. J. Linn. Soc.* **74**: 1–21 (with G. C-D).

Boston (1976–1985)

- 1977 Secondary compounds as protective agents. *Ann. Rev. Plant. Physiol.* **28**: 479–495.
- 1977 Seasonal variation in secondary plant compounds in relation to the palatability of *Pteridium aquilinum*. *Biochem. System. Ecol.* **5**: 177–184 (with G. C-D *et al.*).
- 1977 Secondary compound content of colobus monkey foods and their possible role in diet selection. *Biochem. System. Ecol.* **5**: 317–321 (with R. R. Oates and J. Zantovska).
- 1977 Heliantheae-chemical review. in: chemistry and taxonomy of the Compositae. Academic Press, pp. 673–697 (with C. A. Williams).
- 1979 Tannins and lignins. in: Herbivores; their interaction with secondary plant metabolites. Academic Press, pp. 657–682.
- 1979 Phenolics in the environment. in: Biochemistry of plant phenolics. Plenum Press, pp. 617–640.
- 1979 Cinnamic acid inhibition of detritus feeding. *Nature* **280**: 55–57 (with others).
- 1981 The importance of hydroxycinnamic acids in the decomposition of salt marsh litter. *Proc. Int. Peat Symp. Bemidji, Minn. (U.S.A.)*, pp. 157–175 (with others).
- 1984 The role of phenolic compounds and other plant constituents in feeding by Canada geese in a coastal marsh. *Oecologia (Berlin)* **63**: 343–349 (with Buchsbaum, R. and I. Valiela).
- 1985 Measurement of total protein in plant samples in the presence of tannins. *Anal. Biochem.* **147**: 136–143 (with D. L. Marks and R. Buchsbaum).