

New Book

Forages: The Science of Grassland Agriculture, 4th ed.,  
M.E. Heath, R.F. Barnes and D.S. Metcalfe, eds. Iowa State  
Univ. Press, Ames, Iowa. CHAPTER 11. BIRDSFOOT TREFOIL, by  
W. F. GRANT and G. C. MARTEN. pp. 98-108.

PLANT BIOSYSTEMATICS

Edited by: William F. Grant  
Department of Plant Science  
Macdonald College of McGill University  
Ste. Anne de Bellevue, Quebec, Canada

*Now Published*

Academic Press Canada, <sup>July</sup>~~May~~ 1984/684 pages/ISBN: 0-12-295680-X/\$49.50 U.S.  
55 Barber Greene Road, Don Mills, Ontario, Canada M3C 2A1

PLANT BIOSYSTEMATICS is based on the proceedings of a four day Symposium held at McGill University, Montreal, in July 1983, and provides the first comprehensive treatment of the subject in over a decade. Botanists, geneticists, cytologists, plant breeders, systematists, agriculturalists, evolutionists and biologists interested in the evolution of natural biota will gain perception into the state-of-the-art of plant biosystematics and the contribution this discipline has made to human well-being.

CONTENTS: INTRODUCTION: R.K. Vickery, Jr., BIOSYSTEMATICS 1983. CYTOLOGY AND CYTOGENETICS: K. Jones, CYTOLOGY AND BIOSYSTEMATICS: 1983. M.D. Bennett, THE GENOME, THE NATURAL KARYOTYPE, AND BIOSYSTEMATICS. R.C. Jackson, CHROMOSOME PAIRING IN SPECIES AND HYBRIDS. H. Rees, NUCLEAR DNA VARIATION AND THE HOMOLOGY OF CHROMOSOMES. I. Fukuda, CHROMOSOME BANDING AND BIOSYSTEMATICS. B.A. Barlow, N.J. Martin, CHROMOSOME EVOLUTION AND ADAPTATION IN MISTLETOES. J. Contandriopoulos, DIFFERENTIATION AND EVOLUTION OF THE GENUS CAMPANULA IN THE MEDITERRANEAN REGION. BREEDING SYSTEMS AND HYBRIDIZATION: B. Jonsell, THE BIOLOGICAL SPECIES CONCEPT REEXAMINED. S.H. James, THE PURSUIT OF HYBRIDITY AND POPULATION DIVERGENCE IN ISOTOMA PETRAEA. F.R. Ganders, K.M. Nagata, THE ROLE OF HYBRIDIZATION IN THE EVOLUTION OF BIDENS ON THE HAWAIIAN ISLANDS. E. Small, HYBRIDIZATION IN THE DOMESTICATED-WEED-WILD COMPLEX. PLANT REPRODUCTION AND REPRODUCTION ISOLATION: K. Urbanska, PLANT REPRODUCTIVE STRATEGIES. D.L. Mulcahy, THE RELATIONSHIPS BETWEEN SELF-INCOMPATIBILITY, PSEUDO-COMPATIBILITY, AND SELF-COMPATIBILITY. S. Asker, APOMIXIS AND BIOSYSTEMATICS. C.J. Webb, CONSTRAINTS ON THE EVOLUTION OF PLANT BREEDING SYSTEMS AND THEIR RELEVANCE TO SYSTEMATICS. P.G. Kevan, POLLINATION AND BIOSYSTEMATICS. METHODOLOGIES IN BIOSYSTEMATICS: P. Morisset, C. Boutin, THE BIOSYSTEMATIC IMPORTANCE OF PHENOTYPIC PLASTICITY. R. Verlaque, A BIOSYSTEMATIC AND PHYLOGENETIC STUDY OF THE DIPSACACEAE. J.J. Doyle, R.N. Beachy, W.H. Lewis, EVOLUTION OF rDNA IN CLAYTONIA POLYPLOID COMPLEXES. L.D. Gottlieb, ISOZYME EVIDENCE AND PROBLEM SOLVING IN PLANT SYSTEMATICS. K.E. Denford, PHYTOCHEMICAL APPROACHES TO BIOSYSTEMATICS. I.K. Ferguson, POLLEN MORPHOLOGY AND BIOSYSTEMATICS OF THE SUBFAMILY PAPILIONOIDEAE. J. McNeill, NUMERICAL TAXONOMY AND BIOSYSTEMATICS. J.B. Phipps, PROBLEMS OF HYBRIDITY IN THE CLADISTICS OF CRATAEGUS (ROSACEAE). POPULATION BIOLOGY AND BIOGEOGRAPHY: B.A. Schaal, POPULATION BIOLOGY AND BIOSYSTEMATICS: CURRENT EXPERIMENTAL APPROACHES. C. Favarger, CYTOGEOGRAPHY AND BIOSYSTEMATICS. L. Borgen, BIOSYSTEMATICS OF MACARONESIAN FLOWERING PLANTS. P.S. Ashton, BIOSYSTEMATICS OF TROPICAL FOREST PLANTS: A PROBLEM OF RARE SPECIES. BIOSYSTEMATICS OF MOSSES AND FERNS: R. Wyatt, A. Stoneburner, BIOSYSTEMATICS OF BRYOPHYTES: AN OVERVIEW. D.M. Britton, BIOSYSTEMATIC STUDIES ON PTERIDOPHYTES IN CANADA: PROGRESS AND PROBLEMS. BIOSYSTEMATICS AND ITS PRACTICAL APPLICATIONS: W.H. Lewis, BIOSYSTEMATICS AND MEDICINE. D. Zohary, MODES OF EVOLUTION IN PLANTS UNDER DOMESTICATION. H.H. Iltis, J.F. Doebley, ZEA - A BIOSYSTEMATICAL ODYSSEY. W.A. Brandenburg, BIOSYSTEMATICS AND HYBRIDIZATION IN HORTICULTURAL PLANTS. D. Bramwell, BIOSYSTEMATICS AND CONSERVATION. OVERVIEWS: W.H. Wagner, Jr., A COMPARISON OF TAXONOMIC METHODS IN BIOSYSTEMATICS. J.C. Semple, OBSERVATIONS ON IOPB 1983 AND NOTES ON THE DISCUSSIONS AMONG PARTICIPANTS.