

CONTENTS

THE SYSTEMATIC S ASSOCIATION PUBLICATIONS	ii
LIST OF CONTRIBUTORS	v
PREFACE	vii
1 The Characteristics of the Scanning Electron Microscope and Their Importance in Biological Studies	1
2 Polyphyletic Evolution of Respiratory Systems of Eggshells, with a Discussion of Structure and Density-independent and Density-dependent Selective Pressures	17
3 Scanning Electron Microscopy of the Calcareous Skeleton of Fossil and Living Brachiopoda	37
4 The Scanning Electron Microscope in Acarine Systematics	67
5 The Reaction of Systematics to the Revolution in Micropalaeontology	95
6 Interet du Microscope Electronique a Balayage dans la Definition des Criteres Generiques chez les Coccolithophoridees Fossiles	113
7 Scanning Electron Microscopy and Information Transfer in Systematic Micropaleontology	123
8 Interpretation Botanique des Pollens Inapertures du Mesozoique Saharien Essai de Classification d'apres l'Observation en Microscopic Electronique a Balayage	145
9 Generic Limits in the Biddulphiaceae As Indicated by the Scanning Electron Microscope	155
10 The Study of Lower Tertiary Calcareous Nannoplankton from the North Atlantic Ocean by Means of Scanning Electron Microscopy	179
11 Fine Details of Some Fossil and Recent Conifer Leaf Cuticles	211
12 Scanning Electron Microscopy of Fungi and its Bearing on Classification	237
13 Etude Ornamentale de Basidiospores au Microscope Electronique a Balayage	251
14 The Value of Scanning Electron Microscopy for the Examination of Actinomycetes	285
15 The Study of Fossil Epiphyllous Fungi by Scanning Electron Microscopy	297
16 Preparation of Labile Biological Material for Examination in the Scanning Electron Microscope	307
AUTHOR INDEX	317
SUBJECT INDEX	323