

## CONTENTS

	<i>page</i>
<i>Frontispiece</i> : Arthur Holmes	
<b>PART 1: <i>Introduction</i></b>	
STEWART, F. H. Arthur Holmes [with list of works by Arthur Holmes]	3
WAGER, L. R. The history of attempts to establish a quantitative time-scale	13
SNELLING, N. J. A review of recent Phanerozoic time-scales	29
HUDSON, J. D. Sedimentation rates in relation to the Phanerozoic time-scale	37
LAMBERT, R. St J. The relationship between radiometric ages obtained from plutonic complexes and stratigraphical time	43
FITCH, F. J. & MILLER, J. A. The geological significance of radiometric age studies on volcanic and hypabyssal rocks	55
 <b>PART 2: <i>Radiometric methods with respect to the time-scale</i></b>	
DARNLEY, A. G. Uranium–thorium–lead age-determinations with respect to the Phanerozoic time-scale	73
MOORBATH, S. The rubidium–strontium method	87
MILLER, J. A. & FITCH, F. J. Potassium–argon methods, with special reference to basic igneous rocks	101
BAADSGAARD, H. & DODSON, M. H. Potassium–argon ages of sedimentary and pyroclastic rocks	119
SMITH, A. GILBERT. Potassium–argon decay constants and age tables	129
General discussion of papers in Part 2	142
 <b>PART 3: <i>Original data</i></b>	
DODSON, M. H., REX, D. C., CASEY, R. & ALLEN, P. Glauconite dates from the Upper Jurassic and Lower Cretaceous	145
FITCH, F. J. & MILLER, J. A. The age of the paroxysmal Variscan orogeny in England	159
 <b>PART 4: <i>Stratigraphical review</i></b>	
FUNNELL, B. M. The Tertiary period	179
CASEY, R. The Cretaceous period	193
HOWARTH, M. K. The Jurassic period	203
TOZER, E. T. The Triassic period	207
SMITH, D. B. The Permian period	211

FRANCIS, E. H. & WOODLAND, A. W. The Carboniferous period	221
FRIEND, P. F. & HOUSE, M. R. The Devonian period	233
STRACHAN, I. The Silurian period	237
WHITTINGTON, H. B. & WILLIAMS A. The Ordovician period	241
COWIE, J. W. The Cambrian period	255
General discussion of papers in Part 4	259
Summary of the Phanerozoic time-scale: the Geological Society Phanerozoic time-scale 1964	260
PART 5: <i>Abstracts of published radiometric and stratigraphical data with comments</i>	
Introduction	265
Items	269
Items listed in order of radiometric age	443
Alphabetical index to Items	453