

CONTENTS

PREFACE	III
INTRODUCTION	
WALLISER, O.H.: The IGCP Project 216 "Global biological events in earth history"	1
WALLISER, O.H.: Towards a more critical approach to bio-events	5
LOTTMANN, J., SANDBERG, Ch.A., SCHINDLER, E., WALLISER, O.H. & ZIEGLER, W.: Devonian events at the Ense area (Excursion to the Rheinisches Schiefergebirge)	17
GENERAL ASPECTS	
* BOUCOT, A.J.: Ecostratigraphic criteria for evaluating the magnitude, character and duration of bioevents	25
* SEPKOSKI, J.J., Jr.: Global bioevents and the question of periodicity	47
* HOLSER, W.T., MAGARITZ, M. & WRIGHT, J.: Chemical and isotopic variations in the world ocean during Phanerozoic time	63
* WILDE, P. & BERRY, W.B.N.: The role of oceanographic factors in the generation of global bio-events	75
PRECAMBRIAN TO LOWER CAMBRIAN	
PFLUG, H.D. & REITZ, E.: Evolutionary changes in the Proterozoic	95
* SOKOLOV, B.S. & FEDONKIN, M.A.: Global biological events in the late Precambrian	105
BRASIER, M.: Precambrian-Cambrian boundary biotas and events	109
ORDOVICIAN TO THE BOUNDARY ORDOVICIAN/SILURIAN	
* BARNES, C.R.: The faunal extinction event near the Ordovician-Silurian boundary: a climatically induced crisis	121
RONG Jia-yu & CHEN Xu: A big event of latest Ordovician in China	127
ŠTORCH, P.: Ordovician-Silurian boundary event in Bohemia (Prague Basin - Barrandian area)	133
ERDTMANN, B.-D.: Early Ordovician eustatic cycles and their bearing on punctuations in early nematophorid (planktic) graptolite evolution	139
LINDSTRÖM, M.: Global bio-events in the Ordovician?	153
SILURIAN TO PERMIAN	
SCHÖNLAUB, H.P.: Significant geological events in the Paleozoic record of the Southern Alps (Austrian part)	163
CHLUPÁČ, I. & KUKAL, Z.: Reflection of possible global Devonian events in the Barrandian area, C.S.S.R.	169
BECKER, R. Th.: Ammonoid evolution before, during and after the "Kellwasser-event" - review and preliminary new results	181

* Contribution which has been presented as key-note during the Bio-Event Conference

FARSAN, N.M.: Frasnian mass extinction - a single catastrophic event or cumulative?	189
FEIST, R. & CLARKSON, E.N.K.: Evolution of the last Tropidocoryphinae (Trilobita) during the Frasnian	199
RACKI, G.: Middle to Upper Devonian boundary beds of the Holy Cross Mts: brachiopod responses to eustatic events	203
HLADIL, J., KESSLEROVÁ, Z. & FRIÁKOVÁ, O.: The Kellwasser event in Moravia	213
MC GHEE, G.R., Jr., ORTH, Ch.J., QUINTANA, L.R., GILMORE, J.S. & OLSEN, E.J.: Geochemical analyses of the Late Devonian "Kellwasser Event" stratigraphic horizon at Steinbruch Schmidt (F.R.G.)	219
KALVODA, J.: Upper Frasnian and Lower Tournaisian events and evolution of calcareous foraminifera - close links to climatic changes	225
STREEL, M.: Miospore correlation between North American, German and Uralian (Udmurtia) deep facies through Appalachian, Irish and Belgian platform and continental facies near the Devonian/Carboniferous boundary	237
INGAVAT-HELMCKE, R. & HELMCKE, D.: Permian fusulinacean faunas of Thailand - event controlled evolution	241
TRIASSIC TO JURASSIC	
SCHÄFER, P. & FOIS-ÉRICKSON, E.: Triassic Bryozoa and the evolutionary crisis of Paleozoic Stenolaemata	251
WHATLEY, R.: Biological events in the evolution of Mesozoic ostracoda	257
RIEGEL, W., LOH, H., MAUL, B. & PRAUSS, M.: Effects and causes in a black shale event -- the Toarcian Posidonia Shale of NW Germany	267
CRETACEOUS	
* KAUFFMAN, E.G.: High resolution event stratigraphy: regional and global Cretaceous Bio-events	279
BRUMSACK, H.-J.: Trace metal accumulation in black shales from the Cenomanian/Turonian Boundary Event	337
HILBRECHT, H., ARTHUR, M.A. & SCHLANGER, S.O.: The Cenomanian-Turonian boundary event: sedimentary, faunal and geochemical criteria developed from stratigraphic studies in NW-Germany	345
DAHMER, D.-D. & ERNST, G.: Upper Cretaceous Event-Stratigraphy in Europe	353
CRETACEOUS/TERTIARY BOUNDARY	
BESSE, J., BUFFETAUT, E., CAPPETTA, H., COURTILOT, V., JAEGER, J.-J., MONTIGNY, R., RANA, R., SAHNI, A., VANDAMME, D. & VIANEY-LIAUD, M.: The Deccan Traps (India) and Cretaceous-Tertiary boundary events	365
KNOBLOCH, E.: Palaeofloristic and palaeoclimatic changes in the Cretaceous and Tertiary periods (Facts, problems and tasks)	371
MARTÍN-CLOSAS, C. & SERRA-KIEL, J.: Two examples of evolution controlled by large scale abiotic processes: Eocene nummulitids of the South-Pyrenean Basin and Cretaceous Charophyta	

of Western Europe	375
HANSEN, H.J., GWOZDZ, R., HANSEN, J.M., BROMLEY, R.G. & RASMUSSEN, K.L.: The diachronous C/T plankton extinction in the Danish Basin	381
SİREL, E., DAĞER, Z. & SÖZERİ, B.: Some biostratigraphic and paleogeographic observations on the Cretaceous/Tertiary boundary in the Haymana Polatlı Region (Central Turkey)	385
WIEDMANN, J.: Macro-invertebrates and the Cretaceous-Tertiary boundary	397
FEIST, M. (Coordinator): Bio-events in the continental realm during the Cretaceous-Tertiary transition: a multidisciplinary approach	411
TERTIARY	
PANTIC, N.: Global Tertiary climatic changes, paleophytogeography and phytostratigraphy	419
SCHLEICH, H.H.: Reflections upon the changes of local Tertiary herpetofaunas to global events	429