Contents of Volume 54


Issue 1 (published February 2009)

Thomas H. Rich, Patricia Vickers-Rich, Timothy F. Flannery, Benjamin P. Kear,
David J. Cantrill, Patricia Komarower, Lesley Kool, David Pickering, Peter Trusler,
Steven Morton, Nicholas Van Klaveren, and Erich M.G. Fitzgerald
An Australian multituberculate and its palaeobiogeographic implications ............................. 1–6

J.G.M. Thewissen and Sunil Bajpai
A new Miocene sirenian from Kutch, India .......................................................... 7–13

Gerald Mayr and Nikita Zelenkov
New specimens of zygodactylid birds from the middle Eocene of Messel, with description of a new species of Primozygodactylus .......................................................... 15–20

Richard J. Butler and Robert M. Sullivan
The phylogenetic position of the ornithischian dinosaur Stenopelix valdensis from the Lower Cretaceous of Germany and the early fossil record of Pachycephalosauria ........................................... 21–34

Paul M. Barrett, Richard J. Butler, Wang Xiao-Lin, and Xu Xing
Cranial anatomy of the iguanodontoid ornithopod Jinzhousaurus yangi from the Lower Cretaceous Yixian Formation of China .......................................................... 35–48

Tatsuya Hirasawa
The ligamental scar in the costovertebral articulation of the tyrannosaurid dinosaurs .......................................................... 49–59

Zuoyu Sun, Weicheng Hao, Yuanlin Sun, and Dayong Jiang
Silicified Anisian (Middle Triassic) spiriferinid brachiopods from Guizhou, South China .......................................................... 61–68

Jaroslaw Stolarski, Przemyslaw Gorzelak, Maciej Mazur, Yves Marrocchi, and Anders Meibom
Nanostructural and geochemical features of the Jurassic isocrinid columnal ossicles .......................................................... 69–75

Aaron W. Hunter and Charlie J. Underwood
Palaeoenvironmental control on distribution of crinoids in the Bathonian (Middle Jurassic) of England and northern France .......................................................... 77–98

Marcela Cichowolski
A review of the endocerid cephalopod Protocypendoceras from the Floian (Lower Ordovician) of the Eastern Cordillera, Argentina .......................................................... 99–109

Pawel Filipiak and Agata Jarzynka
Organic remains of tentaculitids: New evidence from Upper Devonian of Poland .......................................................... 111–116

Christian Klug, Hartmut Schulz, and Kenneth De Baets
Red Devonian trilobites with green eyes from Morocco and the silicification of the trilobite exoskeleton .......................................................... 117–123

Mansoureh Ghobadi Pour and Leonid E. Popov
First report on the occurrence of Nesuretinus and Ovalocephalus trilobites in the Middle Ordovician of Iran .......................................................... 125–133

Peter Pervesler and Alfred Uchman
A new Y-shaped trace fossil attributed to upogebiid crustaceans from Early Pleistocene of Italy .......................................................... 135–142

Jordi Martinell and Rosa Domènech
Commensalism in the fossil record: Eunicid polychaete bioerosion on Pliocene solitary corals .......................................................... 143–154

Brief reports

Steven E. Fields
Hypsodonty in the Pleistocene ground sloth Megalonyx: Closing the “diastema” of data .......................................................... 155–158

Lars W. van den Hoek Ostende, Marc Furió, and Israel García-Paredes
New data on Paenelimnoecus from the middle Miocene of Spain support the shrew subfamily Allosoricinae .......................................................... 159–164

Juan Carlos Cisneros and Linda Akiko Tsuji
Nycteroleter affinities of a Permian parareptile from the South African Karoo Basin .......................................................... 165–169
Mariusz A. Salamon, Przemysław Gorzelak, and Michał Zatoń
In quest of cyrtocrinid origins: Evidence from Late Triassic ossicles from the Tatra Mountains. ................................. 171–174

Discussion
Simon Conway Morris: The Burgess Shale animal Oesia is not a chaetognath: A reply to Szaniawski (2005) ............... 175–179

Book reviews
Andrzej Falniowski: Mollusca: A state-of-the-art summary ................................................................. 110

Editorial note: Quotation of Russian references ................................................................. 170

Issue 2 (published June 2009)
Lionel Hautier, Pere Bover, Josep Antoni Alcover, and Jacques Michaux
Mandible morphometrics, dental microwear pattern, and palaeobiology of the extinct Balearic Dormouse Hypnomys morpheus ................................................................. 181–194
Guillermo W. Rougier, Analia M. Forasiepi, Robert V. Hill, and Michael Novacek
New mammalian remains from the Late Cretaceous La Colonia Formation, Patagonia, Argentina ................................................................. 195–212
Michael P. Taylor, Mathew J. Wedel, and Darren Naish
Head and neck posture in sauropod dinosaurs inferred from extant animals ................................................................. 213–220
Stephen L. Brusatte, Richard J. Butler, Tomasz Sulej, and Grzegorz Niedźwiedzi
The taxonomy and anatomy of rauisuchian archosaurs from the Late Triassic of Germany and Poland ................................................................. 221–230
Mahito Watabe, Takanobu Tsuchiji, Shigeru Suzuki, and Khishigjav Tsogtbaatar
The first discovery of pterosaurs from the Upper Cretaceous of Mongolia ................................................................. 231–242
Adam Urbanek and Piotr Mierzejewski
The ultrastructure and building of graptolite dissepiments ................................................................. 243–252
Samuel Zamora, Rodolfo Gozalo, and Eladio Liñán
Middle Cambrian gogiid echinoderms from Northeast Spain: Taxonomy, palaeoecology, and palaeogeographic implications ................................................................. 253–265
Michał Zatoń and Paul D. Taylor
Middle Jurassic cyclostome bryozoans from the Polish Jura ................................................................. 267–288
Adam T. Halamski and Andrzej Baliński
Latest Famennian brachiopods from Kowala, Holy Cross Mountains, Poland ................................................................. 289–306
Uwe Balthasar and Nicholas J. Butterfield
Early Cambrian “soft-shelled” brachiopods as possible stem-group phoronids ................................................................. 307–314
Stefano Monari
Phylogeny and biogeography of pholadid bivalve Barnea (Anchomasa) with considerations on the phylogeny of Pholadoidea ................................................................. 315–335
Pawel Wolniewicz
Late Famennian stromatoporoids from Dębnik Anticline, southern Poland ................................................................. 337–350

Brief reports
Kenneth D. Rose, Rajendra S. Rana, Ashok Sahni, Kishor Kumar, Lachham Singh, and Thierry Smith
First tillodont from India: Additional evidence for an early Eocene faunal connection between Europe and India? ................................................................. 351–355
Silvio Renesto and Spencer G. Lucas
Cynodont teeth from the Carnian (Late Triassic) of northern Italy ................................................................. 357–360

Book review
Martin Sabol: Hic sunt leones et hyaenae ................................................................. 356

Discussion
Reinhard Ziegler
Plesiosoricids from early Oligocene fissure fillings in South Germany, with remarks on plesiosoricid phylogeny ................................................................. 365–371

Steven C. Sweetman
A new species of the plagiaulacoid multituberculate mammal Eobaatar from the Early Cretaceous of southern Britain ............................................ 373–384

Yaoming Hu, Jin Meng, and James M. Clark
A new tritylodontid from the Upper Jurassic of Xinjiang, China ........................ 385–391

Jun Liu, Bruce Rubidge, and Jinling Li
New basal synapsid supports Laurasian origin for therapsids .......................... 393–400

Torsten van der Lubbe, Ute Richter, and Nils Knötschke
Velociraptorine dromaeosaurid teeth from the Kimmeridgian (Late Jurassic) of Germany .......................................................... 401–408

Vanda F. Santos, José J. Moratalla, and Rafael Royo-Torres
New sauropod trackways from the Middle Jurassic of Portugal ........................ 409–422

Anna Kozłowska, Alfred Lenz, and Michael Melchin
Evolution of the retiolitid Neogothograptus (Graptolithina) and its new species from the upper Wenlock of Poland, Baltica ........................................ 423–434

Gennady M. Dlussky and Alexander G. Radchenko
Two new primitive ant genera from the late Eocene European ambers ................ 435–441

Steffen Kiel and Paul R. Dando
Chaetopterid tubes from vent and seep sites: Implications for fossil record and evolutionary history of vent and seep annelids .... 443–448

S. Mariel Ferrari
Cosmopolitan Early Jurassic marine gastropods from west-central Patagonia, Argentina .......... 449–461

Andrzej Kaim, Robert G. Jenkins, and Yoshinori Hikida
Gastropods from Late Cretaceous Omagari and Yasukawa hydrocarbon seep deposits in the Nakagawa area, Hokkaido, Japan .......... 463–490

Vojtěch Turek
Colour patterns in Early Devonian cephalopods from the Barrandian Area: Taphonomy and taxonomy ......................... 491–502

Štěpán Manda and Vojtěch Turek
Minute Silurian oncocerid nautiloids with unusual colour patterns ................. 503–512

Cecilia M. Larsson, John S. Peel, and Anette E.S. Högström
Trachyplax arctica, a new multilayed problematic fossil from the lower Cambrian of North Greenland ................................. 513–523

Christian B. Skovsted, Uwe Balthasar, Glenn A. Brock, and John R. Paterson
The tommotiid Camenella reticulosa from the early Cambrian of South Australia: Morphology, scleritome reconstruction, and phylogeny ........................................... 525–540

Józef Kaźmierczak and Barbara Kremer
Spore-like bodies in some early Paleozoic acritarchs: Clues to chlorococcalean affinities .................................................. 541–551

Brief reports
Alexander Averianov and Hans-Dieter Sues
First record of a basal neoceratopsian dinosaur from the Late Cretaceous of Kazakhstan .................. 553–556

Yongjie Wang, Zhiqi Liu, and Dong Ren
A new fossil lacewing genus and species from the Middle Jurassic of Inner Mongolia, China ..................... 557–560

Cyrille Delmer
Reassessment of the generic attribution of Numidotherium savagei and the homologies of lower incisors in proboscideans ..................... 561–580
Octávio Mateus, Louis Jacobs, Michael Polcyn, Anne S. Schulp, Diana Vineyard, André Buta Neto, and Miguel Telles Antunes
The oldest African eucryptodiran turtle from the Cretaceous of Angola ........................................... 581–588

Nicole Klein and Paul C.H. Albers
A new species of the sauropsid reptile Nothosaurus from the Lower Muschelkalk of the western Germanic Basin, Winterswijk, The Netherlands ................................................................. 589–598

Laura K. Säilä
Alpha taxonomy of the Russian Permian procolophonoid reptiles ....................................................... 599–608

Sérgio Dias-Da-Silva and Ana Luíza Ramos Ilha
On the presence of a pustulated temnospondyl in the Lower Triassic of southern Brazil ......................... 609–614

Alice M. Clement
A new genus of lungfish from the Givetian (Middle Devonian) of central Australia ................................ 615–626

David J. Cicimurri and James L. Knight
Late Oligocene sharks and rays from the Chandler Bridge Formation, Dorchester County, South Carolina, USA ................................................................. 627–647

Gary D. Johnson and David W. Thayer
Early Pennsylvanian xenacanth chondrichthyans from the Swisshelm Mountains, Arizona, USA ............. 649–668

Hubert Szaniawski
The earliest known venomous animals recognized among conodonts ................................................ 669–676

Hans Arne Nakrem, Błażej Błażejowski, and Andrzej Gaździcki
Lower Permian bryozoans from southern and central Spitsbergen, Svalbard ........................................ 677–698

Diego C. García-Bellido, Jean Vannier, and Desmond Collins
Soft-part preservation in two species of the arthropod Isoxys from the middle Cambrian Burgess Shale of British Columbia, Canada ................................................................. 699–712

Shin-Ichi Kamikuri, Isao Motoyama, Hiroshi Nishi, and Masao Iwai
Neogene radiolarian biostratigraphy and faunal evolution of ODP Sites 845 and 1241, eastern equatorial Pacific ................................................................. 713–742

Brief report
Sergio Furtado Cabreira and Juan Carlos Cisneros
Tooth histology of the parareptile Soturnia caliodon from the Upper Triassic of Rio Grande do Sul, Brazil ................................................................. 743–748

Contents of Volume 54 ............................................................................................................................. 749–752