

Contents

	<i>List of Contributors</i> xi		
	<i>Preface</i> xv		
I	Introduction 1		
0	<i>Martin G. Lockley and David D. Gillette:</i> Dinosaur Tracks and Traces: an overview 3		
II	Historical Perspectives 11		
1	<i>R. Dana Batory and William A. S. Sarjeant:</i> Sussex Iguanodon Footprints and the Writing of the Lost World 13		
2	<i>Justin B. Delair:</i> A History of Dinosaur Footprint Discoveries in the British Wealden 19		
3	<i>R. Ted Steinbock:</i> Ichnology of the Connecticut Valley: a vignette of American science in the early nineteenth century 27		
4	<i>James O. Farlow and Martin G. Lockley:</i> Roland T. Bird, Dinosaur Tracker: an appreciation 33		
III	Locomotion and Behavior 37		
5	<i>Richard A. Thulborn:</i> The Gaits of Dinosaurs 39		
6	<i>Richard A. Thulborn and Mary Wade:</i> A Footprint as a History of Movement 51		
7	<i>Glen Kuban:</i> Elongate Dinosaur Tracks 57		
8	<i>Mary Wade:</i> The Stance of Dinosaurs and the Cossack Dancer Syndrome 73		
9	<i>Shinobou Ishigaki:</i> Footprints of Swimming Sauropods from Morocco 83		
IV	Eggs and Nests 87		
10	<i>Karl F. Hirsch:</i> Interpretations of Cretaceous and Pre-Cretaceous Eggs and Eggshell Fragments 89		
11	<i>S. L. Jain:</i> Recent Dinosaur Discoveries in India, Including Eggshells, Nests and Coprolites 99		
12	<i>Sergei M. Kurzanov and Konstantin E. Mikhailov:</i> Dinosaur Eggshells from the Lower Cretaceous of Mongolia 109		
13	<i>Niall J. Mateer:</i> Upper Cretaceous Reptilian Eggs from Zhejiang Province, China 115		
V	Paleoecological, Paleoenvironmental and Regional Synthesis 119		
14	<i>Martin G. Lockley and Kelly Conrad:</i> The Paleoenvironmental Context, Preservation and Paleoecological Significance of Dinosaur Tracksites in the Western USA 121		
15	<i>Jeffrey G. Pittman:</i> Stratigraphy, Lithology, Depositional Environment, and Track Type of Dinosaur Trackbearing Beds of the Gulf Coastal Plain 135		
16	<i>Nancy K. Prince and Martin G. Lockley:</i> The Sedimentology of the Purgatoire Tracksite Region, Morrison Formation of Southeastern Colorado 155		
17	<i>Giuseppe Leonardi:</i> Inventory and Statistics of the South American Dinosaurian Ichnofauna and its Paleobiological Interpretation 165		
18	<i>Ashok Sahni:</i> Paleoecology and Paleoenvironments of the Late Cretaceous		

<p>Contents</p> <p>Dinosaur Eggshell Sites from Penninsular India 179</p> <p>19 <i>Zhen Shouman, Rao Chenggang, Li Jianjun, Niall J. Mateer and Martin G. Lockley: A Review of Dinosaur Footprints in China</i> 187</p> <p>VI Biostratigraphy 199</p> <p>20 <i>Georges R. Demathieu: Appearance of the First Dinosaur Tracks in the French Middle Triassic and Their Probable Significance</i> 201</p> <p>21 <i>Wade E. Miller, Brooks B. Britt and Kenneth L. Stadtman: Tridactyl Trackways from the Moenave Formation of Southwestern Utah</i> 209</p> <p>22 <i>Spencer G. Lucas, Adrian P. Hunt and Kenneth K. Kietzke: Stratigraphy and Age of Cretaceous Dinosaur Footprints in Northeastern New Mexico and Northwestern Oklahoma</i> 217</p> <p>23 <i>Ricardo N. Alonso: Late Cretaceous Dinosaur Trackways in Northern Argentina</i> 223</p> <p>VII Experimentation and Functional Morphology 229</p> <p>24 <i>Kevin Padian and Paul E. Olsen: Ratite Footprints and the Stance and Gait of Mesozoic Theropods</i> 231</p> <p>25 <i>James O. Farlow: Ostrich Footprints and Trackways: implications for dinosaur ichnology</i> 243</p> <p>26 <i>Michael J. Parrish: Phylogenetic Patterns in the Manus and Pes of Early Archosauromorpha</i> 249</p> <p>27 <i>David M. Unwin: A Predictive Method for the Identification of Vertebrate Ichnites and Its Application to Pterosaur Tracks</i> 259</p> <p>VIII Site Reports 275</p> <p>28 <i>Adrian P. Hunt, Spencer O. Lucas and Kenneth K. Kietzke: Dinosaur Footprints from the Redonda Member of the Chinle Formation (Upper Triassic), East Central New Mexico</i> 277</p> <p>29 <i>Robert G. Grantham: Dinosaur Tracks and Megaflores in the Jurassic of Nova Scotia</i> 281</p> <p>30 <i>Robert E. Reynolds: Dinosaur Trackways in the Lower Jurassic Aztec Sandstone of California</i> 285</p> <p>31 <i>Phillip J. Currie: Dinosaur Tracksites of Western Canada</i> 293</p> <p>32 <i>Ken E. Woodhams and John S. Hines: Dinosaur Footprints from the Lower Cretaceous of East Sussex, England</i> 301</p>	<p>viii</p> <p>33 <i>Makoto Manabe, Yoshikazu Hasegawa and Youichi Azuma: Two New Dinosaur Footprints from the Early Cretaceous Tetori Group of Japan</i> 309</p> <p>34 <i>Jeffrey G. Pittman and David D. Gillette: The Briar Site: a new sauropod dinosaur tracksite in Lower Cretaceous beds of Arkansas</i> 313</p> <p>35 <i>Seong-Kyu Lim, Seong Young Yang and Martin G. Lockley: Large Dinosaur Footprint Assemblages from the Cretaceous Jindong Formation of Korea</i> 333</p> <p>36 <i>David D. Gillette and David A. Thomas: Problematic Tracks of Late Albian (Early Cretaceous) Age, Clayton Lake State Park Tracksite, New Mexico, USA</i> 337</p> <p>37 <i>James A. McAllister: Dakota Formation Tracks from Kansas: implications for the recognition of tetrapod subaqueous traces</i> 343</p> <p>38 <i>Louis L. Jacobs, Kathryn M. Flanagan, Michel Brunet, Lawrence J. Flynn, Jean Dejax and Joseph V. Hell: Dinosaur Footprints from the Lower Cretaceous of Cameroon, West Africa</i> 349</p> <p>39 <i>Lee R. Parker and John K. Balsley: Coal Mines as Localities for Studying Dinosaur Trace Fossils</i> 353</p> <p>40 <i>Lee R. Parker and Robert L. Rowley, Jr.: Dinosaur Footprints from a Coal Mine in East Central Utah</i> 361</p> <p>IX Systematic Ichnology 367</p> <p>41 <i>William A. S. Sarjeant: 'Ten Paleoichnological Commandments: a standardized procedure for the description of fossil vertebrate footprints</i> 369</p> <p>42 <i>James O. Farlow, Jeffrey G. Pittman and J. Michael Hawthorne: Brontopodus birdi Lower Cretaceous Sauropod Footprints from the U.S. Gulf Coastal Plain</i> 371</p> <p>X Conservation and Preservation 395</p> <p>43 <i>Neville Agnew, Heather Griffin, Mary Wade, Terence Tebble and Warren Oxnham: Strategies and Techniques for the Preservation of Fossil Tracksites: an Australian example</i> 397</p> <p>44 <i>Masaki Matsukawa and Ikuwo Obata: Interpretation of Dinosaur Footprints from the Lower Cretaceous Sebayashi Formation, Japan</i> 409</p> <p>45 <i>Ikuwo Obata, Hiromi Manuo, Haroyuki Terakado, Tsukumo Murakami, Tashinori Tanaka and Masaki Matsukawa: Replicas of Dinosaur Tracks Using Silicone Rubber and Fiberglass Reinforced Plastics</i> 413</p>
---	--

<i>Contents</i>	ix
46 <i>Kelly Conrad</i> : The Use of Alginate for Footprint Replication 417	49 <i>Glen J. Kuban</i> : Color Distinctions and Other Curious Features of Dinosaur Tracks near Glen Rose, Texas 427
47 <i>Peggy J. Maceo and David H. Riskind</i> : Field and Laboratory Moldmaking and Casting of Dinosaur Tracks 419	50 <i>Martin G. Lockley</i> : Summary and Prospectus 441
48 <i>Shinobou Ishigaki and Toshide Fujisaki</i> : Three Dimensional Representation of <i>Eubrontes</i> by the Method of Moiré Topography 421	<i>Ichnotaxonomic Index</i> 449 <i>Taxonomic Index</i> 451 <i>Location/Geologic Index</i> 453