

# Zoo Conservation Biology

Zoo Conservation Biology Zoos and Aquariums in the Public Mind An Introduction to Zoo Biology and Management Zoos in the 21st Century Ethics on the Ark Zookeeping Strategies and Effectiveness of Zoo Education in the Field of Conservation Biology Becoming a Wildlife Professional Dictionary of Zoo Biology and Animal Management A Sustainable Philosophy—The Work of Bryan Norton Scientific Foundations of Zoos and Aquariums Human-Animal Interactions in Zoos Zoo Talk The National Zoo and Conservation Biology Institute Creative Conservation Dictionary of Zoo Biology and Animal Management Proceedings Herpetological History of the Zoo and Aquarium World Conservation and the Use of Wildlife Resources John E. Fa John Fraser Paul A. Rees Alexandra Zimmermann Bryan G. Norton Mark D. Irwin Natalia Álvarez Montes Scott E. Henke Paul A. Rees Sahotra Sarkar Allison B. Kaufman Eduardo J. Fernandez Patricia G. Patrick Tamra Orr P.J. Olney Paul A. Rees American Association of Zoo Veterinarians. Meeting James Bernard Murphy Melvin Bolton

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in the face of ever declining biodiversity zoos have a major role to play in species conservation written by professionals involved in in situ conservation and restoration projects internationally this is a critical assessment of the contribution of zoos to species conservation through evidence amassed from a wide range of sources the first part outlines the biodiversity context within which zoos should operate introducing the origins and global spread of zoos and exploring animal collection composition the second part focuses on the basic elements of keeping viable captive animal populations it considers the consequences of captivity on animals the genetics of captive populations and the performance of zoos in

captive breeding the final part examines ways in which zoos can make a significant difference to conservation now and in the future bridging the gap between pure science and applied conservation this is an ideal resource for both conservation biologists and zoo professionals

this book summarizes a range of psychological research into how zoos and aquariums operate in the minds of visitors and the broader public bringing together core findings from emerging international research the book provides data based summaries that situate the content in the larger context of how cultural institutions shape public understanding the focus of this book is to bring into a single resource the major strains of research that have explored how zoos and aquariums are situated in public consciousness to ground the discourses around what zoos and aquariums do in the empirical data and evidence and to find opportunities to summarize well established fact to support future research expanding on the known among the topics discussed history of zoo and aquarium development the role of zoos and aquariums in environmental literacy empathy development at zoos applying behavior change theories to the zoo visitor s experience social radiation of ideas from cultural institutions professional practitioners zoo industry professionals and business leaders will find this book an invaluable guide to the psychological literature surrounding the zoo industry

this book is intended as an introductory text for students studying a wide range of courses concerned with animal management zoo biology and wildlife conservation and should also be useful to zookeepers and other zoo professionals it is divided into three parts part 1 considers the function of zoos their history how zoos are managed ethics zoo legislation and wildlife conservation law part 2 discusses the design of zoos and zoo exhibits animal nutrition reproduction animal behaviour including enrichment and training animal welfare veterinary care animal handling and transportation finally part 3 discusses captive breeding programmes genetics population biology record keeping and the educational role of zoos including a consideration of visitor behaviour it concludes with a discussion of the role of zoos in the conservation of species in the wild and in species reintroductions this book takes an international perspective and includes a wide range of examples of the operation of zoos and breeding programmes particularly in the uk europe north america and australasia visit [wiley.com/go/rees\\_zoo](http://wiley.com/go/rees_zoo) to access the artwork from the book

modern zoos and aquaria are playing an increasingly active and important role in protecting and managing global biodiversity many zoos include wildlife conservation in their mission and have started changing the focus of their institutions in order to increase even further the benefits of their activities for in situ wildlife conservation with these developments the following searching questions are now being asked what is the true role of zoos in conservation how can they contribute more significantly to global conservation efforts what are the unique attributes of zoos that can be applied in the conservation landscape and should zoos be doing more in parallel with this voluntary movement legal requirements for zoos to support conservation in the wild are also becoming more stringent this 2007 book defines a conservation vision for zoos and aquaria that will be of interest to those working in zoos alongside practitioners and

researchers in conservation

ethics on the ark presents a passionate multivocal discussion among zoo professionals activists conservation biologists and philosophers about the future of zoos and aquariums the treatment of animals in captivity and the question of whether the individual the species or the ecosystem is the most important focus in conservation efforts contributors represent all sides of the issues moving from the fundamental to the practical from biodiversity to population regulation from animal research to captive breeding ethics on the ark represents an important gathering of the many fervent and contentious viewpoints shaping the wildlife conservation debate

as species extinction environmental protection animal rights and workplace safety issues come to the fore zoos and aquariums need keepers who have the technical expertise and scientific knowledge to keep animals healthy educate the public and create regional national and global conservation and management communities this textbook offers a comprehensive and practical overview of the profession geared toward new animal keepers and anyone who needs a foundational account of the topics most important to the day to day care of zoo and aquarium animals the three editors all experienced in zoo animal care and management have put together a cohesive and broad ranging book that tackles each of its subjects carefully and thoroughly the contributions cover professional zookeeping evolution of zoos workplace safety animal management taxon specific animal husbandry animal behavior veterinary care public education and outreach and conservation science using the newest techniques and research gathered from around the world zookeeping is a progressive textbook that seeks to promote consistency and the highest standards within global zoo and aquarium operations

the essential guide for anyone planning a career in wildlife management and conservation working with wildlife can be a thrilling adventure steeped in the wonders of the natural world but entering the field demands a strong personal commitment with proper training and guidance students can transform themselves into competitive applicants and forge successful careers this book reveals the best way to become a wildlife management professional becoming a wildlife professional is the first comprehensive book to describe the entry level jobs available for the next generation of wildlife biologists and conservationists scott e henke and paul r krausman include detailed chapters on how students should prepare for a vocation in the wildlife profession while offering pragmatic advice about applying for and obtaining a job the core of the book presents more than 100 diverse career options that are available to aspiring wildlife workers including work in biological field research forestry rehabilitation ranching photography and refuge management it also details each position s educational and technical requirements challenges salaries and opportunities for advancement bringing together useful advice from a range of seasoned experts who actually hold these jobs and have used these techniques to secure employment becoming a wildlife professional conveys important philosophical messages about the responsibilities and challenges of a career in wildlife conservation and management this how to manual is an essential

text for wildlife science students interested in making themselves marketable for employers across a wide spectrum of wildlife jobs chapter author contributors rick baydack jessica l blickley monika burchette shawn cleveland kristy deiner kelly garbach ashley r gramza jim heffelfinger scott e henke fidel hernández serra j hoagland jessica a homyack winifred b kessler holley kline lianne koczur michel t kohl john l koprowski blaise korzekwa paul r krausman iara lacher mariah h meek kelly f millenbah karen e munroe kerry l nicholson john p o loughlin lindsey phillips lauren m porensky william f porter terra rentz nova j silvy kelley m stewart marit l wilkerson eric winford an additional 52 wildlife professionals describe the work of the profession published in association with the wildlife society

this dictionary is intended as a guide to the terminology used in a wide range of animal related programmes of study including agriculture animal care animal management animal production animal welfare veterinary nursing wildlife conservation and zoo biology in total it contains over 5 300 entries it contains a wide range of terms used in the fields of veterinary science physiology and zoology as students whose primary interests are animal welfare or zoo biology also need to have some understanding of disease how animal bodies function and how animals are classified it also contains some legal terms and reference to some legal cases to help students understand how the protection use and conservation of animals is regulated by the law some people famous animals literature and films have influenced the way we think about and behave towards animals for this reason the book includes references to important books about animals famous animals who have starred in films or been the subject of scientific studies along with short biographies of famous scientists and others who have studied animals or established conservation or animal welfare organisations

this book provides a richly interdisciplinary assessment of the thought and work of bryan norton one of most innovative and influential environmental philosophers of the past thirty years in landmark works such as toward unity among environmentalists and sustainability a philosophy of adaptive ecosystem management norton charted a new and highly productive course for an applied environmental philosophy one fully engaged with the natural and social sciences as well as the management professions a sustainable philosophy gathers together a distinguished group of scholars and professionals from a wide array of fields including environmental philosophy natural resource management environmental economics law and public policy to engage norton s work and its legacy for our shared environmental future a study in the power of intellectual legacy and the real world influence of philosophy the book will be of great interest scholars and students in environmental philosophy public policy and management and environmental and sustainability studies by considering the value and impact of norton s body of work it will also chart a course for the next generation of pragmatic environmental philosophers and sustainability scholars grappling with questions of environmental value knowledge and practice in a rapidly changing world

in the modern era zoos and aquariums fight species extinction educate communities and advance learning of animal behaviour this book features first person stories and scientific reviews to explore ground breaking projects run by these

institutions large scale conservation initiatives that benefit multiple species are detailed in the first section including critical habitat protection evidence based techniques to grow animal populations and the design of community education projects the second section documents how zoos use science to improve the health and welfare of animals in captivity and make difficult management decisions the section on saving species includes personal tales of efforts to preserve wild populations through rehabilitation captive breeding reintroduction and public outreach the concluding section details scientific discoveries about animals that would have been impossible without the support of zoos and aquariums the book is for animal scientists zoo professionals educators and researchers worldwide as well as students of zookeeping and conservation

in the past couple of decades animal visitor interactions as a type of human animal interaction have become one of the major topics of interest for researchers working in zoos especially in relation to animal welfare this thought provoking book summarizes the latest research concerning the impacts on animals in zoos including the effects of visitors on animals and the effects of animals exhibits and the place itself on visitors an invaluable resource for ethologists and animal behaviour and welfare students and practitioners as well as social scientists and indeed anyone working with zoo animals

founded on the premise that zoos are bilingual that the zoo in the shape of its staff and exhibits and its visitors speak distinct languages this enlightening analysis of the informal learning that occurs in zoos examines the speech of exhibits and staff as well as the discourse of visitors beginning in the earliest years using real life conversations among visitors as a basis for discussion the authors interrogate children's responses to the exhibits and by doing so develop an informal learning model and a zoo knowledge model that prompts suggestions for activities that classroom educators can use before during and after a zoo visit their analysis of the visitor voice informs creative suggestions for how to enhance the educational experiences of young patrons by assessing visitors entry knowledge and their interpretations of the exhibits the authors establish a baseline for zoos that helps them to refine their communication with visitors for example in expanding knowledge of issues concerning biodiversity and biological conservation the book includes practical advice for zoo and classroom educators about positive ways to prepare for zoo visits engaging activities during visits and follow up work that maximizes the pedagogical benefits it also reflects on the interplay between the developing role of zoos as facilitators of learning and the ways in which zoos help visitors assimilate the knowledge on offer in addition to being essential reading for educators in zoos and in the classroom this volume is full of insights with much broader contextual relevance for getting the most out of museum visits and field trips in general

what do komodo dragons screaming hairy armadillos and king vultures all have in common they are some of the animals at the smithsonian's national zoo take a tour through the zoo engaging text graphs maps and colorful images help readers discover the stories behind some of these amazing animals

past progress and future challenges r j wheater royal zoological society of scotland edinburgh uk in the past two decades much has been achieved in the sphere of breeding endangered species and we should be pleased that our co operative efforts have already borne so much fruit however on balance and despite the best efforts of conservationists the position of wildlife in the wild places where they are best conserved has become worse often dramatically worse before returning to the united kingdom in 1972 i was in uganda for 16 years most of which time was spent as chief warden of murchison falls national park our main problem was that an over population of large mammals was having a devastating impact on the habitat devas tation was being wrought on woodland areas by the arrival of large numbers of elephants into the sanctuary of the park following changes in land use in the areas outside the park these changes were in response to the requirements of an ever expanding human population

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follows the changes in zoo and aquarium communities by looking at the development and expansion of the discipline this work presents portraits of a number of zoos and aquariums throughout the world to show the chronology of herpetological discovery people who worked at those places and the breadth of the programs that were put in place

not everybody cares about the fate of wild animals or the state of the natural environment i met a lady who said it wouldn t worry her if all the wild animals in the world disappeared overnight she was a city person she said there are also people who would prefer to let animals become extinct than to have them kept in captivity no matter how progressive the zoo there are those who on principle will not eat meat let alone do the killing and there are those who enjoy nothing so much as shooting birds people in the last two camps may oppose each other in claiming to be con servationists extremists are unlikely to find their opinions being reversed by this book but because of the scope of the subject i believe there is a good chance that anybody with an interest in wildlife will find in it something new to think about it may not be too much to hope that a few disagreements might also be settled because i suspect there is more common ground than is generally realized among those with opposing views

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