

# Biosketches of *AHEAD* Launch Invited Participants

## **Roy G. Bengis**

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Dr. Roy Bengis graduated from the University of Pretoria, Onderstepoort in 1971 with a B.V.Sc. degree and interned at the University of Pennsylvania in 1972–1973. He holds an M.Sc. in physiology and pharmacology (1975) and a Ph.D. in physiology from the University of Mississippi (1978). Dr. Bengis was a consultant for the Jackson Zoo in Mississippi. He is currently the Chief State Veterinarian of Kruger National Park, where he has worked since 1978. Dr. Bengis is an author or co-author of 72 scientific publications and is Africa's representative on the Office International des Épizooties (OIE) Working Group on Wildlife Diseases. He is an external examiner in wildlife medicine at the University of Pretoria and Chairperson of the Wildlife Disease Advisory Group and the Buffalo Committee of the National Directorate of Veterinary Services. Dr. Bengis's fields of interest are wildlife disease epidemiology, infectious disease risk assessment related to translocations, wildlife/domestic livestock interface issues, and chemical immobilization of free-ranging animals. His hobbies include reading, fly-fishing, fly-tying, snorkeling, target and wing shooting, herpetology, and bird watching.

## **Jan Broekhuis**

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## **Philippe Chardonnet**

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Dr. Philippe Chardonnet spent the last 20 years working for the Centre de coopération internationale en recherche agronomique pour le développement (CIRAD), being posted in a number of countries in Africa, Asia, the South Pacific, and South America. He works in developing countries and deals

with different, although related, fields of activity including rural development, wildlife management, and wildlife/human interactions. In 2001, he joined a Paris-based NGO that is active in wildlife conservation worldwide, the International Foundation for the Conservation of Wildlife.

He has been active in numerous areas (not necessarily in order of importance): 1) deer farming and ranching under tropical conditions; 2) rinderpest epidemiology in African wildlife; 3) training of wildlife veterinarians and wildlife rangers in Africa and Asia; 4) game meat production and game ranching on communal land in Zimbabwe; 5) sustainable use of bushmeat in central Africa; 6) development of livestock production in Guinea-Bissau, Rwanda, Burundi, and Ethiopia under emergency and postemergency situations; 7) resolution of human/wildlife conflict in several countries such as Brazil (jaguar and puma) and Zimbabwe (elephant); 8) rescue operations, re-endangered taxa such as marsh deer (Brazil), kulan (Turkmenistan), northern black rhinoceros (Cameroon), Mesopotamian fallow deer (Iran), and birds endemic to South Pacific islands (New Caledonia); 9) improving sustainability of hunting by local communities in central Africa, Brazilian Amazonia, and New Caledonia; 10) designing new schemes of wildlife management within and outside of protected areas.

## **Sarah Cleaveland**

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Dr. Sarah Cleaveland is a veterinary epidemiologist based at the Centre for Tropical Veterinary Medicine, University of Edinburgh, UK. Over the past 12 years, her research work has been centred in northern Tanzania, focusing on the epidemiology of infectious diseases at the human/wildlife/domestic animal interface, including rabies, canine distemper, bovine tuberculosis, brucellosis, and echinococcosis. Key objectives of her research programme have been to improve our understanding of the dynamics of infectious diseases in complex, multihost communities, to identify risk factors for disease emergence in human and animal populations, to quantify the true burden of disease in human and livestock populations, and to optimise the design of zoonotic disease control strategies.

Rabies has been a principal interest for many years, triggered initially by concerns about disease threats to African wild dogs in the Serengeti but now resulting in wider involvement in rabies control throughout Africa and Asia. The complementary aims of several current research projects are to provide information necessary for the development of

large-scale rabies control programmes in sub-Saharan Africa that will benefit both public health and wildlife conservation.

**J.A.W. Koos Coetzer**

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Professor Koos Coetzer is currently Professor and Head of the Department of Veterinary Tropical Diseases, Faculty of Veterinary Science at the University of Pretoria as well as a part-time Professor in Tropical Veterinary Medicine at Utrecht University, the Netherlands, supporting collaborative research and postgraduate training between the two faculties. Some of Professor Coetzer's honors include the Research Award of the South African Veterinary Association for outstanding research published in scientific journals (1982); the Bill Venter Literary Award (1997); the Gold Medal of the South African Veterinary Association in recognition for outstanding scientific achievements and promotion of veterinary science (1997); the Malbrant-Feunten Award of the French Veterinary Academy (1998); and the International Award from the Faculty of Veterinary Science, Spain, for the production of a high-quality video on Rift Valley fever (1998).

Professor Coetzer holds a B.V.Sc. (1973), B.V.Sc. Honours (1980), and an M.Med.Vet. (Path) degree from the University of Pretoria.

**Robert A. Cook**

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Robert A. Cook, V.M.D., M.P.A., is an Adjunct Professor of Environmental Affairs at Columbia University in New York City and the Chief Veterinarian and Vice President of the Wildlife Health Sciences (WHS) Division of the Wildlife Conservation Society (WCS). He has 20+ years of experience in zoo and wildlife medicine and has served in his present capacity as Chief Veterinarian for the last 13 years. It was under Dr. Cook's guidance that the Field Veterinary Program was established in 1989 as the first global effort to support the health and conservation of wildlife populations in native habitats. The WHS programs in clinical care, pathology, and field veterinary medicine are responsible for the health of over 23,000 animals in five New York facilities including the Wildlife Centers in Central Park, Queens, and Prospect Park; the New York Aquarium; and the Bronx Zoo. The WHS Division also oversees the health-related programs at the WCS Wildlife Survival Center on St. Catherines Island,

Georgia. With the Field Veterinary Program taking the lead, WHS is deeply involved in the health aspects of the Wildlife Conservation Society's international conservation programmes, providing services and research to a number of the 300 WCS projects in 53 nations.

Dr. Cook graduated from the University of Pennsylvania School of Veterinary Medicine in 1980 and pursued a career in zoo and wildlife medicine thereafter. Recently he fulfilled his desire to have a more global impact on wildlife health issues by returning to school to receive his Masters in Public Administration from Columbia University in 2002. With his background in both wildlife health and associated global policy issues, he accepted an adjunct teaching position at Columbia University in its School of International and Public Affairs.

Dr. Cook is Chair of the Animal Health Committee of the American Zoo and Aquarium Association (AZA) as well as Chair of the Captive Wildlife and Alternative Livestock Committee of the U.S. Animal Health Association. He is a past President of the American Association of Zoo Veterinarians. Dr. Cook also has a long-standing interest in pain amelioration and is a scientific advisor to the Mayday Fund. In addition, he serves as a scientific advisor to the Morris Animal Foundation and as a member of the Conservation Endowment Fund Committee of the AZA.

**David Cumming**

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Dr. David Cumming has been working in wildlife research and conservation in Zimbabwe and southern Africa since the 1960s. He graduated in Zoology and Entomology from Rhodes University in South Africa, started work in fisheries research but soon joined Zimbabwe's Department of National Parks and Wildlife Management in 1964. After 12 years at the Sengwa Wildlife Research Institute in Chirisa (where he did his doctoral research on warthog ecology), he became Chief Ecologist and headed the Branch of Terrestrial Ecology. In 1988, he retired early as Deputy Director of National Parks to set up the WWF Multispecies Animal Production Systems Project. This grew into the WWF Southern African Regional Program, where he was Program Director until early 2001 when he became an independent consultant and a research associate in the Tropical Resource Ecology Programme (TREP) at the University of Zimbabwe. Dr. Cumming's main current research interests are in ecology and management of large mammalian herbivores, the influence of land-use policy and practice on biodiversity and resilience in social-ecological systems, and the conservation and management of elephants. Invertebrates remain an abiding interest and he works with his wife, Meg, on termites and spiders.

**Rod de Vletter**

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Rod de Vletter, a Swaziland citizen, is a tourism and environment specialist who has worked for the World Bank since 1993. He is the owner of two nature reserves and an ecotourism lodge in Swaziland and is the founder of Swaziland's environmental NGO, Yonge Nawe. He is one of the originators of the Transfrontier Conservation Area (TFCA) Initiative and has been working on coastal zone management, biodiversity and tourism corridors, and tourism and conservation policy and programme development. His working experience covers Mozambique, Zimbabwe, Swaziland, Malawi, and Uganda. Recently, Mr. de Vletter has been working with the International Finance Corporation to design the South East Africa Tourism Investment Program (SEATIP) and with the Government of Mozambique to design its Sustainable Tourism and Conservation Program.

**Raoul du Toit**

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Raoul du Toit is a Zimbabwean. He commenced his professional career in the field of environmental impact assessment (EIA), having undertaken postgraduate training at the University of Cape Town. He has been particularly involved in EIAs of large hydroelectric schemes on the Zambezi and Cunene Rivers. He diverted into rhino conservation work through his appointment in 1985 as Scientific Officer for the IUCN African Elephant and Rhino Specialist Group. For 3 years, he coordinated the conservation efforts of this group within Africa. In 1988, Mr. du Toit developed a WWF project to survey the status of black rhinos in the Zambezi Valley and since then has worked as a Project Executant with WWF. In 1990, he was seconded to the Zimbabwean Department of National Parks and Wildlife Management, where he worked for seven years to initiate and implement the Rhino Conservancy Project in Zimbabwe. This entailed establishing viable rhino breeding groups in semiarid areas of Zimbabwe, amalgamating game ranches into large conservancies to provide adequate habitat, setting up protection and monitoring

systems, and helping to deal with the ongoing economic and political challenges to these private sector projects. He also helped to establish the regional rhino conservation programme of the Southern African Development Community and is involved in this programme as a technical adviser on rhino projects in several countries.

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Susie Ellis, Ph.D., is the Vice President for Conservation International's (CI) Indonesia and Philippines programmes, working out of Washington, DC. She oversees management and programme development, as well as the scientific integrity of field projects. Dr. Ellis also raises funds and increases awareness of the urgent biodiversity crisis currently facing both countries. Well known in the international conservation community, she has worked in more than 25 countries and has written more than 80 technical papers, proceedings, and book chapters.

Prior to joining CI, Dr. Ellis spent 10 years working for the IUCN Conservation Breeding Specialist Group, facilitating more than 100 collaborative biodiversity/species conservation and strategic planning workshops and securing the operation of the expert group. With David Wildt, Dr. Ellis co-led a 5-year collaborative interdisciplinary program for giant panda conservation in China that has enhanced collaboration among agencies responsible for their conservation, as well as among U.S.-based partners. She has also worked extensively with the Cheetah Conservation Fund (Namibia) to facilitate its long-range organizational and scientific strategic planning, which has resulted in funding for facility expansion and the organization's scientific direction.

Dr. Ellis is well known in the zoological community and has worked for the Minnesota Zoo, Lincoln Park Zoo (Chicago), San Diego Zoo, and Sea World, Inc. (San Diego), and as a consultant for the Aquarium of the Pacific (Long Beach).

**Jacques Flamand**

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With broad experience with African, Middle Eastern, and Asian wildlife, Dr. Flamand has worked as a wildlife veterinarian in South Africa in Kruger National Park and on the Natal Parks Board. He was Director of both the National Wildlife Research Centre (Taif) and King Khalid Wildlife Research Centre (Riyadh), Saudi Arabia. Dr. Flamand was Veterinary Adviser to the Department of National Parks and Wildlife Conservation in Royal Chitwan National Park, Nepal.

His interests and the majority of his life's work entails wild animal captures; wild animals' adaptation to captivity, holding, and transportation; reintroductions and parasitism of game species, together with the interaction and the disease implications of game animals mixing with domestic stock; game ranching; and wildlife veterinary ecology. The genetics of small populations and the implications thereof, especially in the rhinoceros and lion, have been major subjects of his study. In Saudi Arabia, Dr. Flamand developed a protocol for the eradication of tuberculosis in a captive breeding herd of Arabian oryx held at Taif, the first such attempt in a wild ungulate anywhere in the world. His most recent posting in Chitwan was to establish a veterinary programme designed to address the veterinary concerns of both the wildlife and surrounding domestic livestock.

**Chris Foggin**

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Dr. Chris Foggin has spent most of his professional life in the service of the Zimbabwean Government. Prior to the establishment of the Wildlife Veterinary Unit within the Department of Veterinary Services (DVS), Dr. Foggin had been primarily involved in research within the DVS on rabies epidemiology and had also played a pioneering role in developing management practices for the intensive production of crocodiles and ostriches, in addition to undertaking emergency wildlife work on an irregular basis.

The foot and mouth disease-free buffalo programme emanated from Dr. Foggin's offices. As head of the Wildlife Unit, he has been responsible for veterinary regulations concerning the movement of wildlife both within the country and externally. The relocation of oxpeckers is an ongoing exercise, and with the promotion of venison production and marketing,

Dr. Foggin has been called on to assist in developing this section.

The ongoing rhino snaring crisis and the pressures of dealing with wildlife/cattle disease problems in Zimbabwe's current economic situation have added greatly to the workload of the Wildlife Unit.

**Guy Freeland**

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Guy Freeland, B.V.M.S. (Glasgow 1965), M.Sc. (Edinburgh University, Centre for Tropical Veterinary Medicine 1978), M.R.C.V.S., has had a long and distinguished career in international veterinary medicine.

In the 1970s and early 1980s, his Overseas Development Administration (ODA) assignments took him to Swaziland, Sarawak, and Bangladesh, followed by a World Bank assignment in Nigeria. From 1983 to 1999, Dr. Freeland was the Senior Animal Health and Production Adviser to the British Government's ODA, (now the Department for International Development, DFID). His responsibilities included livestock project appraisal, monitoring, supervision, and review in some 45 countries in Africa; West, South, and Southeast Asia; and Pacific regions. He also had oversight of ODA/DFID's Animal Health and Livestock Production Research Programmes and provided advice on assistance to international research institutions.

Since retiring from the civil service in 1999, his freelance consulting has taken him to Botswana, Vietnam, Lao People's Democratic Republic, and Nepal, and has also included work in the United Kingdom. He is a member of the Board of Directors of VETAID, and Chairman of the Board of Trustees of Worthing Animal Clinic.

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Dr. Robert Fyumagwa received his B.V.M. degree from Sokoine University of Agriculture (SUA) in 1990. From 1991 to 1998, he worked as a private practitioner in a mixed veterinary practice in Dar es Salaam, Tanzania. From September 1998 to September 2000, Dr. Fyumagwa finished his postgraduate studies at SUA, specializing in parasitology. In October 2000, he joined Tanzania Wildlife Research Institute (TAWIRI) as a veterinary research officer – the

position he is currently holding. While in private practice, Dr. Fyumagwa participated in a rinderpest vaccination campaign for Masai pastoralists in 1997. After joining the wildlife sector, he completed a capture course in Zimbabwe in 2001. Dr. Fyumagwa attended the Envirovet course in 2002. His future plans include more training on wildlife disease and postgraduate training in wildlife management and ecology. Dr. Fyumagwa has been an active participant in the TAWIRI Annual Conference since December 2000.

### **Wayne M. Getz**

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Dr. Wayne M. Getz was born in South Africa in 1950 and has been a faculty member of the University of California at Berkeley since 1979. He has a Ph.D. from the University of the Witwatersrand (Applied Mathematics, 1976) and a D.Sc. from the University of Cape Town (1995). He is a Fellow of the California Academy of Sciences, the American Association for the Advancement of Sciences, an Alexander von Humboldt U.S. Senior Scientist Awardee, a past Research Fellow of the Stellenbosch Institute for Advanced Studies, and currently is an Extraordinary Professor at the University of Pretoria Mammal Research Institute. Dr. Getz is a Past President of the Resource Modelling Association and has organized U.S.-NSF-funded workshops in southern Africa on the topics of "Resource Utilization" and "Community-Based Wildlife Management." His publications include a co-authored Princeton University Press monograph *Population Harvesting: Demographic Models of Fish, Forest, and Animal Resources*. His current research focuses on the application of mathematical modeling and analysis to problems in conservation biology, wildlife management, and epidemiology. Dr. Getz is the Principal Investigator of an ongoing U.S.-NSF funded study of the spread of bovine tuberculosis in the African buffalo population in Kruger National Park.

### **George K. Gitau**

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Dr. George K. Gitau graduated with a B.V.M. from the University of Nairobi, Kenya, in 1987. He thereafter obtained

an M.Sc. from the University of Guelph, Canada (1992), and a Ph.D. from the University of Nairobi (1997). Dr. Gitau currently works with the African Union/Interafrican Bureau for Animal Resources (AU/IBAR) and coordinates AU/IBAR's project on the Livestock, Wildlife and Environment Interface. Dr. Gitau is also a Senior Lecturer at the Veterinary School of the University of Nairobi and is currently on leave of absence. Dr. Gitau has specialised in veterinary epidemiology and has over 10 years field experience in smallholder dairy production systems in the highland ecosystems of Kenya. During the last 5 years, Dr. Gitau has been working in the pastoral rangeland ecosystems of Kenya, one of which is the Maasai pastoral ecosystem that has an extensive interaction of people, livestock, and environment. One of Dr. Gitau's interests and working areas currently is the livestock, wildlife, and environment interface, which is being pursued together with other scientists and stakeholders and with the support of UNEP-GEF.

Dr. Gitau is attending the World Parks Congress *AHEAD* forum as a representative of AU/IBAR, the coordinator for AU/IBAR's project on the Livestock, Wildlife and Environment Interface, and Thematic Programme Network 3 (TPN3) Focal Point for UNCCD that addresses the area of "rational use of rangelands and fodder management."

### **Markus Hofmeyr**

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Born in Johannesburg, Markus went to veterinary school with the objective of working with wildlife. During university years he worked as a guide in Pilanesberg National Park, and during holidays at various game reserves. After qualifying as a veterinarian, Markus worked at a variety of practices and went to Canada for a few months where he gained some North American wildlife experience. Back in South Africa, a stint in exotic animal medicine (dealing with birds, monkeys, and snakes) was an important step for him.

In 1995, Markus began working for the Madikwe Game Reserve, where the largest animal translocation in the world was taking place at that time. In the five years he spent there, he gained a tremendous amount of ecological, veterinary, and management experience in wildlife translocations and the running of a large game reserve. From there, he moved to Kruger National Park, where he currently holds the position of Principal Scientist-Veterinary Services.

One career highlight has been his involvement with the reintroduction of the endangered African wild dog into Madikwe Game Reserve. The experience gained with the work done in Madikwe has improved our knowledge of wild dogs and has been used extensively in other introductions of wild dogs elsewhere in South Africa.

**Gladys Kalema-Zikusoka**

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Dr. Gladys Kalema-Zikusoka worked as Veterinary Officer of the Uganda Wildlife Authority from 1996 to 2000. During her tenure, Dr. Kalema-Zikusoka was involved in setting up veterinary programmes and developing a policy framework for wildlife conservation to support the timely and efficient delivery of veterinary services including translocation and reintroduction, and problem animal management.

As part of her zoological medicine residency program through North Carolina State University, Dr. Kalema-Zikusoka received the African Wildlife Foundation Charlotte Fellowship Conservation Award in 2000. This led to new research on tuberculosis at the human, wildlife, and livestock interface in Queen Elizabeth and Bwindi Impenetrable Forest National Parks in Uganda in 2001 and 2002.

Following up on the research findings and recommendations, Dr. Kalema-Zikusoka became Founder and Chief Executive Officer of Conservation Through Public Health, an international grassroots NGO, established in 2002, to promote conservation with public health by improving primary health services for people and animals around protected areas throughout Uganda.

Dr. Kalema-Zikusoka obtained a B.V.M. from the Royal Veterinary College, University of London, in 1995. She completed a zoological medicine residency and Masters in Specialized Veterinary Medicine at North Carolina State University and North Carolina Zoological Park in the U.S. in 2003. She also obtained a Certificate in Non-Profit Management from Duke University in the U.S. in 2003.

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William Karesh, D.V.M., heads the Field Veterinary Program (FVP) of the Wildlife Conservation Society (WCS), which has over 300 field projects in 50 countries around the world. Dr. Karesh was hired to develop this program in 1989 to address health-related issues among field biologists and conservationists. The program provides services overseas for WCS field staff as well as for workers from government agencies and non-governmental organizations. The FVP also conducts research on the health status of free-ranging wildlife populations, provides training for foreign veterinarians and biologists, and frequently assists overseas organizations and

agencies with wildlife translocations, as well as confiscation and rehabilitation issues. Major initiatives of the FVP include the development of multinational wildlife/livestock/human health programs and policy consultation for developing-country governments and bilateral aid organizations.

In 1999, the Wildlife Conservation Society's FVP initiated the first comprehensive preventive health program for free-ranging lowland gorillas aimed at protecting populations in three range states (Gabon, Congo, and Central African Republic) from the risk of exposure to emerging or introduced diseases. This program was created in response to the growing interest in gorilla ecotourism, proliferation of ecological/wildlife research, and expansion of human communities in and around the forests of central Africa. This program was up and running during the recent Ebola outbreaks that have swept across northern Congo and Gabon, allowing FVP veterinarians and collaborating scientists to respond quickly to the crisis.

Dr. Karesh is also Co-Chair of the IUCN Species Survival Commission (SSC) Veterinary Specialist Group.

**Michael D. Kock**

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Dr. Michael Kock is a veterinarian who works as a conservation practitioner, with a particular interest in the issues of ecosystems, wildlife, and their relationship to human health and well-being. His career as a wildlife veterinarian has spanned several continents, but Africa is his home, and the African people and wildlife provide his sustenance. Dr. Kock was born in South Africa, but grew up in Zimbabwe, travelling from there to pursue his veterinary degree in England. He did veterinary work in America and the Middle East before he returned to Zimbabwe, where he was heavily involved with rhinoceros work during the poaching heydays of the 1980s and 1990s. His work has carried him across Africa to Cameroon and throughout southern Africa. He believes that the future of conservation lies in winning the hearts and minds of the rural people of Africa and supporting their aspirations and improving the health of their livestock. Dr. Kock has broadened his horizons by involvement with organizations such as Theatre for Africa in educating people on conservation and health issues; he is a member of the Southern Africa Sustainable Use Specialist Group (SASUSG). He believes the key to success in conservation in the developing world is by adopting a participatory approach, building capacity, educating, and supporting homegrown solutions.

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Dr. Richard Kock is a British (M.R.C.V.S.) veterinarian who has spent over 20 years in the wildlife field attached to the Zoological Society of London (ZSL), initially as a veterinary officer for its captive collections and subsequently on conservation and animal health programmes around the world.

In 1991, he was seconded from ZSL to the Kenya Wildlife Service (KWS, a parastatal institution mandated to manage and conserve all wildlife in Kenya) to head a new Veterinary Unit (five veterinarians, two technicians, 30 officers and field staff) for seven years. The programme was successful with a now functional and sustained Unit at KWS. From November 1998–2000, he was seconded to an African regional body, the Organisation of African Unity/Interafrican Bureau for Animal Resources (OAU/IBAR) Pan African Rinderpest Campaign. This has involved the organisation and implementation of extensive serosurveillance and disease investigation in nondomestic ruminant species throughout eastern Africa and also in the Central African Republic. This activity continued from July 2000 to the present, setting up the wildlife component of the Epidemiology Unit of the new AU/IBAR Pan African Control of Epizootics (PACE) programme, involving 30 countries in Africa. His area of responsibility is eastern Africa and the activities include strategic planning for epidemicsurveillance amongst wildlife species, especially at the wildlife/livestock interface; training of national staff in the appropriate veterinary techniques at national and regional levels; and practical support to field surveillance.

Dr. Kock has consulted for the IUCN (elephant), the World Wide Fund for Nature (rhino), the World Bank (Uganda Wildlife Authority development), and the Food and Agriculture Organisation of the United Nations (Global Rinderpest Eradication Programme). He is Co-Chair of the IUCN Species Survival Commission (SSC) Veterinary Specialist Group, and a member of the Cat and Antelope Specialist Groups of the SSC. He is well travelled, having been involved in a variety of conservation-related initiatives in Europe, Africa, the Middle East, Eurasia, and the Caribbean. He promotes wildlife veterinary matters through extensive publications and at professional meetings. Dr. Kock is a registered specialist in Zoo and Wildlife Medicine with the Royal College of Veterinary Surgeons of England, and a member of the Wildlife Disease Association, the British Veterinary Zoological Society, the World Association of Wildlife Veterinarians, the American Association of Zoo and Wildlife Veterinarians, and the British Veterinary Association.

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Dr. Karen Laurenson qualified as a veterinarian from Cambridge University in 1987 and then spent three years in Tanzania studying cheetah behaviour and ecology for a Ph.D. Thereafter, she combined her interests in disease and ecology by conducting postdoctoral research on wildlife disease epidemiology, particularly at the wildlife/domestic animal interface, with a long-term study of louping-ill dynamics in wild and domestic species (red grouse) in the United Kingdom and with shorter projects in Namibia and South America. Since 1996, she has been involved in research and conservation programmes to reduce the threat of rabies and other canine diseases to Ethiopian wolves. Dr. Laurenson was based at the University of Edinburgh Veterinary School as a research fellow and then as a lecturer since 1997. Currently, she is also working part-time for Frankfurt Zoological Society as a Programme Officer for their Africa program, with particular responsibility for projects involving veterinary issues in Ethiopia and Congo.

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Dr. Dale Lewis has worked as a conservation scientist for the Wildlife Conservation Society in Zambia for over 20 years. He has contributed to applied research in elephant and hippo management, and to such efforts as the establishment of a college for promoting community leaders in wildlife conservation, improved legislation on wildlife management policies, and development of community-based management systems and institutions. Dr. Lewis works in close collaboration with the Zambia Wildlife Authority as Technical Advisor for Community-Based Natural Resource Management (CBNRM). Results emanating from his work include the national village scout programme, an integrated

database for studying wildlife management approaches in rural areas outside national parks, a national programme for CBNRM referred to as ADMADE, and large-scale pilot schemes for testing development models that promote wildlife conservation.

In recent years, Dr. Lewis has undertaken an initiative to link households that are vulnerable to poverty and hunger with a regional trading centre through a programme that promotes alternatives to poaching by improving market access and producer prices. The programme integrates a variety of disciplines that enable household livelihood needs to be better addressed in ways that lead to decreased human conflicts with wildlife and to increased wildlife production. In his spare time, he fly-fishes and roams around the African bush with his wife, Julia.

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Dr. Tim Leyland is a veterinarian with an M.Sc. in tropical animal health and production, currently working with the Tufts University School of Nutrition and Policy, Boston, seconded to the African Union.

After experience in private practice, he has worked in underserved livestock-rearing areas for the past 15 years in Papua New Guinea, Afghanistan, Mozambique, Sudan and all the countries of the Horn of Africa. With experience in NGO, government, and international agency projects and programmes, he has specialized in community-based livestock projects and veterinary service delivery in developing countries. Dr. Leyland's current activities revolve around researching and implementing field-based animal health delivery systems in order to bring about institutional, policy, and legislative change at national, regional, and global levels. Over the past ten years, he has used community-based livestock initiatives to resolve and manage armed conflict, improve livestock marketing and trade, improve disease surveillance, and ensure appropriate emergency relief interventions in remote, marginalized livestock-rearing areas. More recently, his work within AU/IBAR has concentrated on the institutional development of African livestock organizations.

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Dr. Neo Mapitse is a Principal Veterinary Officer with the Botswana Department of Animal Health and Production within the Ministry of Agriculture. He currently works as the Department's wildlife veterinarian heading the Wildlife Unit, which among other things, provides advice on wildlife-related issues to the Department. His work has mainly been on disease surveys in various antelope species, with emphasis on diseases shared by both domestic and wild animals. In the past two years, as Botswana has had foot and mouth disease (FMD) outbreaks in cattle, his work has focused on FMD and antelope in areas of concern. He believes that an efficient and effective disease management strategy in domestic animals should be influenced by knowledge of pathogen behaviour in wildlife and the environment.

Neo graduated with a B.V.M.S. from the University of Glasgow in 1996, where he also attained membership in the Royal College of Veterinary Surgeons. He worked for two years as an official district veterinarian before enrolling for an M.Sc. in wild animal health with the University of London in 1998.

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Rowan Martin qualified at Manchester University in the 1960s as an engineer and physicist and switched his career to wildlife and environmental issues in 1970. He worked for the Department of National Parks in Zimbabwe for 25 years and was head of wildlife and fisheries research in the department from 1987 to 1997. Since then, he has been working as a freelance consultant in the southern African region on a range of conservation and development projects.

Apart from wildlife ecology, his interests lie in land-use planning and institutional structures. He is the author of the well-known Communal Areas Management Programme For Indigenous Resources (CAMPFIRE 1986) and has recently been advocating new models for state-protected area management in southern Africa.

#### **Anita L. Michel**

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Dr. Anita Luise Michel matriculated in 1982 and obtained the qualification as a veterinarian in 1987 from the Ludwig-Maximilians-University of Munich, Germany. She completed a doctoral thesis on molecular studies on coxsackie virus at the Max-Planck-Institute for Virology in Martinsried, Germany, for which she obtained the degree Dr.Med.Vet. cum laude from the same university in 1989. Also in 1989, she joined the research team concerned with viral diseases of

animals at the Onderstepoort Veterinary Institute near Pretoria. Her main research fields included diagnostic methods and epidemiology of malignant catarrhal fever in wildebeest and sheep. In 1995, Dr. Michel joined the tuberculosis laboratory of the department of bacteriology at the same institute and became head of this department in 2002. Her main research activities focus on the improvement of diagnostic methods for bacterial diseases and the research on tuberculosis in domestic and wild animals. Dr. Michel is the author or co-author of 21 scientific papers and 36 conference presentations.

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Fumi Mizutani, D.V.M., M.Sc., Ph.D., studied veterinary medicine at Hokkaido University and worked for the scientific committee of WWF Japan before she studied tropical resource ecology at the University of Zimbabwe. Her specific subject was the reproductive success of foot and mouth disease virus-free, semi-domesticated African buffalo compared with that of wild herds. Following her growing interest in mixed livestock/wildlife systems and particularly on disease transmission between domestic stock and wildlife as well as livestock predation by carnivores as major conflict areas, she subsequently studied predators on a working ranch in Laikipia, Kenya. Under the guidance of the late Professor Peter Jewell at the University of Cambridge, she did her Ph.D. on the impacts of predation in wildlife and domestic stock. Since 1996, she has implemented the Lolldaiga Research Programme at Lolldaiga Hills Ranch, a beef-dairy working ranch in Kenya. Dr. Mizutani is also working as a livestock/wildlife consultant at the Kenya Agriculture Research Institute and the International Livestock Research Institute.

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Dr. Titus Mlengeya obtained his B.V.M. degree from Sokoine University in 1988 and an M.Sc. in veterinary epidemiology from the University of Reading, UK, in 1994. He received a certificate for competency with dangerous drugs from the Zimbabwe Veterinary Association in 1997. Dr. Mlengeya served as a wildlife research scientist at Serengeti Wildlife Research Institute from 1987 to 1989. In 1989 and 1990, he was District Livestock Development Officer for the

Tanzanian Ministry of Agriculture and Livestock Development. From 1990 to 1993, he established and managed a veterinary clinic in Dar Es Salaam, and from 1994 to 1996, he served as Wildlife Epidemiologist for the Tanzanian Ministry of Agriculture & Livestock Development in Dar Es Salaam. Since 1996, he has worked at Serengeti and other Tanzanian National Parks as a wildlife veterinarian. Dr. Mlengeya currently heads TANAPA's Wildlife Veterinary Unit.

Dr. Mlengeya is a member of the Wildlife Conservation Society of Tanzania, the Society for Veterinary Epidemiology and Preventive Medicine, and the Wildlife Disease Association. His current activities include rinderpest surveillance in wildlife (buffalo, other ungulates); treatment of endangered animal species (black rhinos, wild dogs); snare removal (lions, buffalo, hyaena, zebras, other species); vaccination of domestic animals to control rabies, rinderpest, foot and mouth disease, and canine distemper; training of park rangers for animal health monitoring; training of local communities in animal husbandry; and conducting post-mortem examinations (with diagnostic sampling and related laboratory work) of wild animals that have died.

His goals are to continue to monitor and mitigate diseases, conduct necessary research, and maintain healthy wildlife populations in a healthy ecosystem. Dr. Mlengeya provides support for community-based livestock projects to fight poverty in local communities and involves local people in conservation programs.

#### **Pete Morkel**

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Pete Morkel qualified from Onderstepoort in 1984 and has been working as a wildlife veterinarian since 1986. He started with the Game Capture Unit of the Ministry of the Environment in Namibia. After 4 years with the Unit in Namibia, he moved to Etosha National Park as the park veterinarian. After leaving Etosha in 1992, he did private wildlife veterinary work before joining the South African National Parks in 1994. He was tasked to develop their Kimberley Capture Unit and was responsible for all capture and veterinary work in the national parks outside of Kruger. He left South African National Parks in early 2001 and worked with a private game capture team in South Africa for a year before moving to Ngorongoro Crater in Tanzania, where he now works for the Frankfurt Zoological Society as the rhino coordinator for their various projects in a number of African countries.

Most of Pete's experience has been with the capture and translocation of the larger wildlife species. He has also had the opportunity to participate in capture operations in more than 14 African countries. Much of this work has involved the translocation of black rhino. Giraffe is another species with

which he has had a particular involvement. Pete's particular interest has been developing better techniques for the capture of wildlife. He has also been very involved in the training of wildlife veterinarians.

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Norman Mukarati, B.V.Sc., M.Sc. is a wildlife veterinarian with 11 years of experience in the field, most of which was acquired in Zimbabwe. A 1991 graduate of the University of Zimbabwe, Dr. Mukarati then became a resident veterinary surgeon (intern) there with the University Veterinary Hospital, Faculty of Veterinary Science. This ten-month position focused mostly on small-animal surgery.

In 1993, Dr. Mukarati joined the Wildlife Unit of the Department of Veterinary Services, Zimbabwe. This position provided intensive hands-on wildlife veterinary training. Duties included wildlife veterinary medicine and surgery (disease investigation, medical and surgical treatments); disease research; capture and translocation exercises, including those involving endangered species such as rhinoceroses; coordinating implementation of official regulations related to wildlife keeping and movement; as well as assisting with the administration of the commercialised Wildlife Unit. During this time, Dr. Mukarati travelled extensively within and outside of Zimbabwe on duties that included consultancies in Nigeria, Swaziland, and Zambia. He also organised training of veterinarians in wildlife medicine, with a focus on ostriches. From January to September 2002, Dr. Mukarati was a lecturer teaching wildlife sciences at Bindura University, Zimbabwe. He continued to be active in wildlife practice as an independent consultant for the private sector, NGOs and government. In October 2002, he joined the Botswana Department of Wildlife and National Parks as their Wildlife Veterinary Officer. Future aspirations include attaining a Ph.D. and gaining more international experience through professional association activities and fieldwork.

**Gary Mullins**

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Dr. Mullins has lived in sub-Saharan Africa for 18 years, 14 of which have been spent in applied agricultural research. Animal agriculture and mixed animal production systems, including wildlife, are his specialty, with an emphasis on

natural resource management, conservation, and household welfare economics. He worked as a research scientist for the International Institute of Tropical Agriculture in Nigeria, Tanzania, and Uganda, and later in Kenya for the International Livestock Research Institute. He was a founding member of Botswana's first Veterinary Epidemiology and Economics Unit, and from 1996 to 2000, headed its Economics Section. In addition, Dr. Mullins has been a Visiting Scientist at Colorado State University's Natural Resource Ecology Laboratory. He most recently served as Office Chief for Agriculture and Natural Resource Management at the U.S. Agency for International Development's Regional Center for Southern Africa.

He holds a Ph.D. in agricultural economics from Oklahoma State University and a Master's degree in International Development from American University's School of International Service (Washington, DC). Besides English, he speaks French, Kiswahili, West African pidgin and Swedish.

**Misheck Mulumba**

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Since January 2002, Dr. Misheck Mulumba has been the Director for the African Union/Centre for Ticks and Tick-borne Diseases (AU/CTTBD). His primary duties include production of tick-borne disease vaccines for livestock, training (epidemiology and diagnostics), supervision of post-graduate students, coordination of regional livestock disease work, and participation in policy formation at the livestock/wildlife interface.

Between June 2000 and December 2001, Dr. Mulumba held the position of Deputy Director at AU/CTTBD. He was Chief Veterinary Officer and Subprogram Manager, Animal Production and Health, for the Ministry of Agriculture, Food and Fisheries in Zambia from September 1997 to May 2000. Dr. Mulumba was the Senior Veterinary Officer for the Ministry of Agriculture in Zambia between May 1995 and August 1997, and helped oversee the translocation of more than 2,000 game animals within the country. From December 1993 to December 1999, he was the Counterpart Project Manager and later Project Manager for ASVEZA (Assistance to the Veterinary Services of Zambia), a Belgium-funded animal health project. Between October 1989 and November 1993, Dr. Mulumba was a Government Veterinary Officer for Zambia.

Dr. Mulumba is a founding member of the African Chapter of the Wildlife Disease Association and a member of the African Association of Insect Scientists, the IUCN Veterinary Specialist Group, the Veterinary Association of Zambia, and the African Tick Group.

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Dr. Simon Munthali, a Malawian, has 22 years experience in protected areas and wildlife management; formulation of wildlife policy; research in the ecology of terrestrial wildlife, ichthyofauna, and the socio-economics related to wildlife utilisation (including studies of economic incentives for nature conservation and the formulation of co-management plans for natural resource management). He was Chief Technical Advisor for the GEF (Global Environment Facility)/World Bank Transfrontier Conservation Areas project in Mozambique, from 1998 to 2003. This project was aimed at promoting transborder ecosystem management. Dr. Munthali's qualifications include a B.Sc. in agriculture, a B.Sc. (Hons.) in wildlife biology, and a Ph.D. in ichthyology.

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Michael Murphree has 16 years of experience in the field of community-based natural resource management. Born in Zimbabwe and educated in Zimbabwe and the United States, he was employed by the Department of National Parks and Wildlife Management (Zimbabwe) in 1987 as an ecologist to work on the CAMPFIRE programme. In 1994, he took a position in Mozambique as Wildlife Policy Advisor through IUCN (Regional Office Southern Africa), where he was involved in the development of Mozambique's first community wildlife management project, Tchuma Tchato.

In 1996, he became the Executive Officer of the Southern Africa Sustainable Use Specialist Group (of IUCN), a position held until May 2002. Mr. Murphree has worked with and on community-based natural resource management projects in southern and West Africa. In 1999, he was invited by the Ghana Wildlife Division to assist in developing Ghana's first community wildlife management programme through the establishment of Community Resource Management Areas and continues to provide periodic inputs into this programme.

As an independent consultant based at the Institute of Natural Resources in Natal, South Africa, he has been closely involved in collating, analysing and disseminating information on community-based wildlife management systems, and in developing new mechanisms and approaches for project implementation. Mr. Murphree is working on policy and legislative reform issues and is currently involved in developing new approaches to communicate environmental

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Dr. Jacob Mwanzia, currently the Senior Wildlife Veterinary Officer for the Environment and Wildlife Management Section, in the Emirate of Abu Dhabi, United Arab Emirates (UAE), is responsible for the medical care of a wide range of mammals and birds throughout the Emirate's wildlife sanctuaries. He implements national wildlife research plans, manages staff, oversees the budget and training, and develops health protocols, in addition to acting as a liaison with the scientific community and the public. In the field, Dr. Mwanzia provides technical support during wildlife capture attempts and translocations. He graduated from the University of Nairobi in 1989 with a B.V.M. and in 1992 he received his Master's degree in Veterinary Public Health (M.V.P.H.). After graduating, Dr. Mwanzia was a field veterinarian with the Kenya Wildlife Service where, for six years, he worked with a diverse cross-section of species. Other projects he is currently involved with include health monitoring of semi-captive Arabian oryx in the UAE, disease surveillance of desert hare (*Lepus capensis*), and management and nutritional assessment of semi-captive wildlife in UAE. Dr. Mwanzia has a special interest in conflict resolution in wildlife management based on his experiences in Africa.

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Dr. Laurel Neme is the Senior Policy Advisor for FRAME, a program of USAID aimed at combining web-based knowledge and an expert community of practice to help decision-makers and practitioners working on environment and natural resource management analyse issues, plan strategically, and advocate their positions more effectively. FRAME, short for

FRAMEwork for improved environmental decision-making, has evolved into an unusual melding of a website and resource/advisory group, designed to improve natural resource management and environmental programs and projects. Dr. Neme is an independent consultant for both public sector and non-governmental clients, including USAID, the World Bank, the WWF, and others. Before working on FRAME, she served as an international economist with the U.S. Treasury Department's Office of Multilateral Development Banks, where she oversaw the social and environmental aspects of projects and policies at the World Bank Group and regional development banks (including the African Development Bank), and directed the actions of the U.S. executive directors for those institutions. In particular, she advised the multilateral banks on environmental impact assessment, information disclosure, institutional issues, and incentives structures all designed to facilitate public participation in the design and implementation of development programs. Dr. Neme holds a Ph.D. from Princeton University's Woodrow Wilson School of Public and International Affairs.

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Dr. Jesse Njoka works as a senior lecturer at the University of Nairobi in the Department of Range Management. He has been a chairman of the East Africa Wildlife Society for seven years. Dr. Njoka has a Ph.D. from the University of California at Berkeley in the College of Natural Resources.

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Philip Nyhus, Ph.D., is Assistant Professor and Co-Chair of the Environmental Studies Program, Department of Earth and Environment, Franklin and Marshall College. From 1999 to 2001, Dr. Nyhus was a postdoctoral research and teaching fellow funded by a National Science Foundation (NSF) Award for the Integration of Research and Education at Colby College. In his interdisciplinary research, he bridges the natural and social sciences to address human interactions with the environment. He has studied tiger and large mammal

conservation in Indonesia and China and is exploring how linkages among coupled human-natural systems can be used to improve biodiversity risk assessment to inform conservation policy at regional and global scales. Dr. Nyhus is Principal Investigator on a grant from NSF's Biocomplexity in the Environment Program, "Models and Meta-Networks for Interdisciplinary Research in Biodiversity Risk Assessment," and Co-Principal Investigator on a proposal under review in the same program, "Biocomplexity and Biodiversity: An Interdisciplinary, Integrated, Multi-Model Approach to Endangered Species Risk Assessment and Education." He has collaborated on developing new models of population viability analysis, disease risk, and spatial analysis. Funding for his research has also come from, among other sources, National Fish and Wildlife Foundation, US Fish and Wildlife Service, National Security Education Program, and The Tiger Foundation (Canada).

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Steve Osofsky, D.V.M., first experienced East Africa in 1984–1985 as a Harvard University Traveling Fellow, observing wildlife species in Kenya, Tanzania, and Rwanda while examining conservation challenges from a variety of perspectives including those of local people, NGOs, and governments. As a veterinarian, he has worked in a variety of domestic and international contexts, with his most recent overseas post being that of the first Wildlife Veterinary Officer for the Botswana Department of Wildlife and National Parks. Dr. Osofsky worked directly for the Government of Botswana, and had an active role in hands-on wildlife management as well as policy formulation. He has also worked in the zoological community, and served as the Director of Animal Health Services at the Fossil Rim Wildlife Center in Texas. As an American Association for the Advancement of Science (AAAS) Science and Diplomacy Fellow, he served as a Biodiversity Program Specialist at USAID and focused on ground-truthing Integrated Conservation and Development Projects; providing technical advice on wildlife management; and working with the US Fish and Wildlife Service on the Rhino-Tiger and African Elephant Grants Programs, on CITES policy, etc.

Dr. Osofsky's program/policy interests include park/buffer zone management and planning; linking wildlife conservation and sustainable development; conflicts at the livestock/wildlife interface (problem predator issues, disease concerns); endangered species management; linking wildlife research to management needs, as well as *in situ* and *ex situ* wildlife veterinary medicine. He is an Adjunct Assistant Professor at the University of Maryland, and also serves on eight IUCN SSC Specialist Groups. Dr. Osofsky had been

with WWF since 1998, serving as their Director, Field Support for species programs in Asia and Africa. In December 2002, he left WWF to join the Wildlife Conservation Society's Field Veterinary Program (FVP) as the Society's first Senior Policy Advisor for Wildlife Health. Helping the FVP to expand into the policy arena is an exciting challenge, one that logically builds upon the scientific and hands-on fieldwork that has long been the FVP's hallmark.

#### **Craig Packer**

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Dr. Craig Packer graduated from Stanford University in 1972 and completed his Ph.D. at the University of Sussex in 1977. He studied nonhuman primates in Gombe National Park, Tanzania, off and on from 1972 to 2000, and has headed the Serengeti lion project since 1978. Dr. Packer currently has students working on lions in Tarangire and Serengeti National Parks as well as Ngorongoro Conservation Area, Tanzania. In South Africa, he collaborates with Dr. Rob Slotow, University of Natal-Durban, and is involved in projects at Hluhluwe-Umfolozzi and Pilanesberg Parks, as well as a number of private reserves. In addition to his lion work, Dr. Packer is the Principal Investigator of collaborative research projects in the Serengeti that are funded by the National Science Foundation (NSF) program in the Ecology of Infectious Diseases and the NSF initiative on Biocomplexity.

Dr. Packer is currently Distinguished McKnight Professor in the Department of Ecology, Evolution and Behavior at the University of Minnesota. He was elected to the American Academy of Arts and Sciences in 2003.

#### **Banie Penzhorn**

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After an honours degree in wildlife management (University of Pretoria), Dr. Banie Penzhorn joined South African National Parks, where he worked as a researcher in the Eastern Cape Province. During this period, he was granted study leave and obtained an M.Agric. in wildlife science at Texas A&M University. He used his research on ecology and behaviour of Cape mountain zebras for a Doctorate (Pretoria). After eight years with SANParks, Dr. Penzhorn left to study veterinary science. He has been teaching at the Faculty of Veterinary Science, University of Pretoria, since 1981. His current research focus is protozoal diseases of wildlife and domestic animals. Dr. Penzhorn's list of publi-

cations in refereed journals stands at more than 90. He is the current president of the South African Veterinary Association (SAVA) and is also secretary of the SAVA Wildlife Group. Dr. Penzhorn is also an honorary life member and past president of the Southern African Wildlife Management Association.

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Mary Phillips, D.Phil., B.Sc., received her undergraduate training in physiology at University College in London and did her doctoral work and began her subsequent academic career in the University Laboratory of Physiology, Oxford. Dr. Phillips' research was on endothelial and epithelial membrane transport, and she moved to scientific administration at the Wellcome Trust in 1989. She initially managed the Physiology and Pharmacology portfolio, but more recently became responsible for the International Biomedical programme, which funds basic biomedical science in resource-constrained countries. Also recently, she assumed responsibility for the management of the Animal Health in the Developing World Initiative.

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Dr. Delphine Purves is the Project Manager for Science and Funding at the Wellcome Trust. She joined the Trust in 1999 as a Science Programme Officer in the Careers and Clinical Initiatives Department, having spent 18 months on secondment as the Executive Assistant to the Director of the Wellcome Trust. Her previous posts include the Scientific Editor of the *European Journal of Cancer* and various research posts in oncology, particularly neuro-oncology, neuropathology, and microbiology.

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Robin Reid, Ph.D., is a systems ecologist, leading research on livestock and environment issues at the International Livestock Research Institute (ILRI) in Nairobi, Kenya. She began her research career as a biologist in the U.S. National Park Service working on plant-herbivore interactions. For the last two decades, she has worked in subhumid and semi-arid lands in Africa, focusing on why and where land use changes and how such changes affect ecosystems. She currently leads a global pastoral systems project at ILRI that attempts to balance pastoral development and ecosystem conservation. The pastoral team works with NGOs, government, communities, and private industry to bring the best science (field studies, GIS, remote sensing, and simulation modelling) to bear on critical conservation/development issues.

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Since 1998, Dr. Wilna Vosloo has been Deputy Director of the Exotic Diseases Division (EDD) at Onderstepoort Veterinary Institute, the quarantine facility where research, diagnosis, and vaccine production are focused mainly on foot and mouth disease (FMD) and African swine fever. She is the

programme manager and project leader of several programmes and projects at the EDD, and has managed to procure outside funding from international agencies and pharmaceutical companies for various research projects at the EDD. Dr. Vosloo has spent various periods at different internationally acclaimed laboratories for scientific visits. She was appointed as Honorary Lecturer in the Department of Medical Microbiology, University of Cape Town, Medical School (1996–1999). Dr. Vosloo was appointed as Honorary Lecturer in the Department of Tropical Diseases, Faculty of Veterinary Sciences, University of Pretoria (2002–current). She acts as supervisor for a number of honours M.Sc. and Ph.D. students. Dr. Vosloo was awarded the Bronte Steward Research Prize for the most meritorious thesis for the degree of M.D., Ph.D., or Ch.M. in the Faculty of Health Sciences at the University of Cape Town during 1998.

Dr. Vosloo has presented more than 40 papers and posters at various international and national congresses. She has published 14 papers in international journals on FMD research, and is the author of a chapter in a book on the natural habitats of FMD. Dr. Vosloo has been invited to several national and international meetings to provide expertise on FMD and its control. She has been invited by the FAO on consultancies to African countries for FMD control and training. She has also been invited to serve on the FMD Advisory Committee for the Directorate of Animal Health, South Africa.

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Kenneth Waithiru, B.A., B. Phil. Econ., obtained both of his degrees in economics from the University of Nairobi. He first worked in a commercial bank before joining the Government of Kenya as an economist in 1993. Since then, Mr. Waithiru has worked in the National Council of Population and Development as a Population Planning Officer, in the Human Resources Social Services Department as a Senior Economist, and now works with the Ministry of Finance serving as the EU Desk Officer coordinating, on behalf of the Government of Kenya and the EU, the following programmes (among others): Tourism Trust Fund, Kenya Agricultural Research Institute, Kenya Tourism Board, Kenya Wildlife Society, The Elephant Conservation Project, and the Biodiversity Conservation Programme.

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Dr. Elizabeth Wambwa is a graduate of the University of Nairobi (B.V.M.) and a holder of an M.Sc. in wild animal health from the University of London's Royal Veterinary College. She has over ten years hands-on field experience in wildlife health management working at the Kenya Wildlife Service (KWS) and collaborating with other institutes and veterinary departments in the region. She is the current chairperson of the Wildlife Disease Association-Africa and Middle East Section.

Dr. Wambwa currently heads the KWS Veterinary Unit based at its headquarters in Nairobi. KWS is the lead government corporation in Kenya that is mandated to manage and conserve wildlife. The Veterinary Unit supports the mission and goals of KWS and is responsible for ensuring healthy wildlife populations in the country and for managing human/wildlife conflict. Dr. Wambwa organises and oversees all veterinary intervention for wildlife including treatment of sick and injured wildlife, disease outbreak investigations, disease serosurveillance and translocation of various species of wildlife, among other activities. She contributes to the development of relevant guidelines for the management of wildlife and to the formulation and implementation of research projects of importance to wildlife health. She also supervises veterinary projects undertaken by KWS veterinary officers. Dr. Wambwa has special interest and participates in fora that seek to encourage and develop community-based wildlife enterprises and utilisation of wildlife to improve livelihoods.

#### **L. Chris Weaver**

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Chris Weaver is a rangeland ecologist with 26 years of experience in working with a wide range of common-property natural resources in the United States and southern Africa. Mr. Weaver's career commenced in 1976 on the arid to semi-arid rangelands of the southwestern United States, where he was responsible for managing and undertaking a variety of resource inventories (rangeland, wildlife, water, soils, etc.), environmental impact assessments, and ranch management plans. Clients included the Bureau of Land Management, USDA Forest Service, San Carlos Indian Tribe, Tono O'dom Indian Tribe, Navajo Indian Tribe, Hopi Tribe, Mobil Oil, and numerous private landholders.

From 1982 to 1992, Mr. Weaver was based in Lesotho, southern Africa, where he initially worked as a Range/Livestock Specialist and Manager for the Land Conservation and Range Development Project, and thereafter, the Lesotho Agricultural Production and Support Project. Since 1993, Mr. Weaver has resided in Namibia, serving as the Chief of Party for the highly successful WWF Living In a Finite Environment (LIFE) Project. In this role, Mr. Weaver oversees a team of technical staff who provide support and assistance to the Namibia National CBNRM Program and communal area conservancies in their efforts to sustainably manage and benefit from their wildlife, rangeland, and tourism resources through such income-generating enterprises as trophy hunting, game production and cropping, community-based tourism, joint-venture lodge developments, and crafts production and marketing.

In addition to the above long-term assignments, Mr. Weaver has worked throughout the southern Africa region, participating in an assortment of assignments in Botswana, Malawi, Mozambique, South Africa, Zambia, and Zimbabwe, as well as Kenya in East Africa.

#### **Susan Welburn**

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Dr. Sue Welburn is a reader in molecular epidemiology based at the Centre for Tropical Veterinary Medicine, University of Edinburgh, United Kingdom. Over the past 15 years, her research work has been centered on southeast Uganda and Tanzania, focusing on the epidemiology of human sleeping sickness and interactions at the trypanosome/tsetse fly interface. Key objectives of this research programme have been to quantify the importance of the animal reservoir of disease for human sleeping sickness and to delineate the policy implications for control options. Sleeping sickness has existed in southeast Uganda for more than 100 years, but little effort or resources have been applied to controlling the principal parasite reservoir of the disease in domestic livestock or in wildlife. Control options have instead focused on controlling tsetse flies. Considering that up to 18% of cattle in southeast Uganda may be infected with the human parasite whilst less than 1:1,000 tsetse flies are infected, it would seem

appropriate to target interventions towards controlling the animal reservoir of disease.

#### **Michael Woodford**

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Dr. Michael Woodford graduated at the Royal Veterinary College, London, in 1946. After 20 years in rural agricultural practice in Dorset, UK, he spent 4 years working for the Nuffield Unit of Tropical Animal Ecology on tuberculosis in the African buffalo in the Queen Elizabeth National Park, Uganda. In 1971, he joined FAO and served for five years on the Kenya Wildlife Management Project. When that project terminated, he was posted by FAO to Afghanistan and later to Mozambique and Kenya. He retired from FAO in 1984 and since then has worked as an independent wildlife consultant for a wide variety of international agencies in 27 different countries, ranging from Greenland to the Philippines. He is a member of the Office International des Épizooties (OIE) Working Group on Wildlife Diseases and now lives in Portugal. He was the founder and first Chair of the IUCN SSC Veterinary Specialist Group.

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For the past 18 years, Angela has worked with animals in captivity at the Stanley Park Zoo (Vancouver), Dallas Zoo (Texas), and Disney's Animal Kingdom (Florida). Her interests are in animal behaviour, and she has worked closely with African ungulates for many years. More recently, Angela has been involved with *in situ* programs in Africa, South America, and Australia. She has been traveling to Peru to organize a program called "Zookeepers Without Borders" for the Detroit Zoo. Angela graduated from the University of British Columbia with a B.Sc. in wildlife management/animal behaviour. She joined the Wildlife Conservation Society's Field Veterinary Program as the assistant coordinator in May 2003.

## **IUCN Species Survival Commission**

The Species Survival Commission (SSC) is one of six volunteer commissions of IUCN – The World Conservation Union, a union of sovereign states, government agencies and non-governmental organizations. IUCN has three basic conservation objectives: to secure the conservation of nature, and especially of biological diversity, as an essential foundation for the future; to ensure that where the earth's natural resources are used this is done in a wise, equitable and sustainable way; and to guide the development of human communities towards ways of life that are both of good quality and in enduring harmony with other components of the biosphere.

A volunteer network comprised of some 7,000 scientists, field researchers, government officials and conservation leaders from nearly every country of the world, the SSC membership is an unmatched source of information about biological diversity and its conservation. As such, SSC members provide technical and scientific counsel for conservation projects throughout the world and serve as resources to governments, international conventions and conservation organizations.

SSC Occasional Papers cover a broad range of subjects including conservation of groups of species in a particular geographical region, wildlife trade issues, and proceedings of workshops.

IUCN/SSC also publishes an Action Plan series that assesses the conservation status of species and their habitats, and specifies conservation priorities. The series is one of the world's most authoritative sources of species conservation information available to natural resource managers, conservationists and government officials around the world.

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