

# THE SIXTH WORLD CONFERENCE ON BREEDING ENDANGERED SPECIES

The Role of Zoos in Global Conservation

4th - 6th May, 1992  
Jersey, Channel Islands

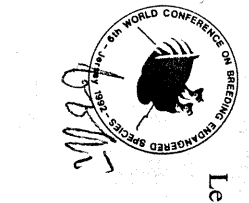


Co-sponsored by:  
Jersey Wildlife Preservation Trust  
Fauna and Flora Preservation Society  
The Zoological Society of London

IUCN/SSC Captive Breeding Specialist Group Meeting  
7th May, 1992

outbreeding can mean homogeneity  
[ ]  
no inbreeding - so long as  
(they do it themselves)  
inbreeding - plants do it.  
Some birds 50% - 70% - v. common  
outbreeding can be a problem -  
Saddleback - a few hundred  
now 5000 - 90% in breeding

Jersey Wildlife Preservation Trust  
Les Augrès Manor, Trinity, Jersey JE3 5BF, Channel Islands



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large genetic diversity







WORLD CONFERENCES ON  
BREEDING ENDANGERED SPECIES

1. 2 - 4 May 1972 Jersey Wildlife Preservation Trust
2. 6 - 8 Jul. 1976 Zoological Society of London
3. 12 - 16 Nov. 1979 Zoological Society of San Diego
4. 24 - 27 Sep. 1984 Flevohof, The Netherlands
5. 9 - 12 Oct. 1988 Cincinnati Zoo and Botanical Gardens
6. 4 - 6 May 1992 Jersey Wildlife Preservation Trust



## ACKNOWLEDGEMENTS

## NOTES

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Conference Delegates	— Green
WPT Personnel (JWTI / WPTI / WPTC)	— Blue
CBSG Registration (7th May)	— Pink

### KEY:

-  blue denotes Chairpersons
-  orange denotes Speakers
-  green denotes Programme Committee and Conference Organizers

### CONFERENCE LOGO

Designed by I.T.C. Trainee: Adrian Cerda Ardura of Mexico.



## POSTERS

- #1 "Intensive wild ungulate breeding." Paul Bartels, Wildlife Breeding Research Centre.
- #2 "African wild dogs." Bruce A. Brewer, Chicago Zoological Society.
- #3 "New opportunities in animal health science (NOAHS): biotechnology for conservation." K. Cooper, M. Bush, S. J. O'Brien, R. A. Stolk and D. E. Wildt, Centre for Biological Research.
- #4 "Bioavailable forms of vitamin E for correcting a biochemical deficiency in captive elephants." Susan Crissey, A. Papas and A. Petric, Chicago Zoological Society.
- #5 "The red panda captive breeding masterplan." Angela Glatston and Frank Princée, Rotterdam Zoo.
- #6 "The effect of rearing experience on subsequent behavioural traits in Hawaiian geese *Branta sandvicensis*: implications for the recovery programme." Ann P. Marshall and Jeffrey M. Black, The Wildfowl and Wetlands Trust.
- #7 "Welfare consideration in the re-introduction of captive bred mammals to the wild." Trevor B. Poole, Universities Federation for Animal Welfare.
- #8 "Karyotypes spider monkey species (*Ateles* spp.) and the identification of hybrids." Roy Powell and R. Howell, Paignton Zoo.
- #9 "Disentangling parentage and other genetic relationships of captive Waldrapp ibis, *Geronticus eremita*." Cindy Tomlinson, Durrell Institute of Conservation & Ecology.
- #10 "Conservation of the Mauritius parakeet (*Psittacula eques echo*) in the wild." Kevin Duffy, Mauritian Wildlife Appeal Fund.
- #11 "Conservation studies on the pink pigeon." Kirsty Swinnerton, JWPT.
- #12 "Federation of Zoos of Great Britain and Ireland: Invertebrate Working Group." David Hughes, Glasgow Zoo.
- #13 "Successful introduction of Waldrapp ibis *Geronticus eremita* on the basis of family bonding — description of an Austrian pilot study." Ellen Thaler, Karin Pegorar and Susanne Stabinger.
- #14 "The helmeted honey-eater recovery programme." Ian Smales, Healesville Sanctuary.
- #15 "Two of Asia's most threatened primates: Douc langur (*P. nemaus* spp.) and Delacour's langur (*T. f. delacouri*)." H. Jörg Adler, Allwetter Zoo, Münster, Germany.
- #16 "Conservation of the Mexican wolf." Jose Stoopen, ZSL, Whipsnade Wild Animal Park.
- #17 "Postgraduate veterinary training in wildlife management." Annemie Scholten, ZSL, Whipsnade Wild Animal Park.
- #18 "DNA fingerprint analysis of bald ibis at the Zurich zoo." Ester Signer, A. Rubell, C. Schmidt and A. Jeffreys, University of Leicester, UK and Zurich Zoo, Switzerland.
- #19 "Demographic changes in the population of the re-introduced great Indian rhinoceros *Rhinoceros unicornis* in Dudwa National Park, Uttar Pradesh, India." S. P. Sinha and V. B. Sawarkar, Wildlife Institute of India.
- #20 "The Madagascar Fauna Captive Propagation Group." Andrea Katz and David Anderson, MFG Technical Advisor; MFG Chairman.
- #21 "A zoo for the wild: 1,000 acre biological park." S. M. Hassan and Sally Walker.
- #22 "Management of wild animals in captivity: an indigenous zoo management training course." J. H. Desai and Sally Walker.
- #23 "Regional CBSG communications network: CBSG India." Sally Walker.
- #24 "Wildlife Preservation Trusts' conservation posters: an aid to *in situ* conservation/environmental education." Phillip Coffey, JWPT.
- #25 "Training Zoo Educators to improve environmental education programmes in developing countries." Phillip Coffey, JWPT.
- #26 "A review of current status, breeding and management of bald ibis (*Geronticus eremita*) at the Birecik breeding station, eastern Turkey." Tony Allchurch, JWPT and Uygur Özesmi, DHKD, Ankara, Turkey.
- #27 "SAFE Saving Animals From Extinction - JWPT: Harnessing public support for overseas projects." Simon Hicks, JWPT.





SESSION IV

**CONTROLLED BREEDING PROGRAMMES, CONSIDERATIONS  
FOR RE-INTRODUCTIONS AND TRANSLOCATIONS**

**PART 4 Chair:** DR. MICHAEL BRAMBELL

*Director, North of England Zoological Society.*

15.45 DAVID SHEPHERDSON

*Metro Washington Park Zoo, USA.*

**The shape of enrichment to come.**

16.00

SIMON MICKLEBURGH  
*Fauna and Flora Preservation Society.*

**Old world fruit bats, captive breeding and translocation.**

16.15

LIZA GADSBY<sup>1</sup>; ANNA FEISTNER<sup>2</sup> AND MICHAEL BOER<sup>3</sup>

*<sup>1</sup>Fauna and Flora Preservation Society; <sup>2</sup>Jersey Wildlife Preservation Trust;  
<sup>3</sup>Hannover Zoo.*

**Co-ordinated conservation programmes for the drill, endangered  
in forest and zoo.**

16.30

MELODY SERENA  
*Healesville Sanctuary, Australia.*

**Interface between a captive breeding programme for tuans  
(*Phascogale tapoatafa*) at Healesville Sanctuary with wild  
populations.**

16.45

BRIAN MILLER<sup>1</sup>; DEAN BIGGINS<sup>2</sup>; LOUIS HANEBURY<sup>3</sup> AND ASTRID  
VARGAS<sup>4</sup>

*<sup>1-4</sup>US Fish and Wildlife Service.*

**Re-introduction of the black-footed ferret.**

17.00

Discussion.

SESSION V

**CONFERENCE SUMMARY**

**Chair:** PROFESSOR SIEGFRIED SEIFERT

*President, International Union of Directors of Zoological Gardens.*

17.20

Summary by DR. GEORGE RABB

*Chairman of the Species Survival Commission of IUCN — The World Conservation Union.*

19.30

Complimentary Cocktails: Main Restaurant.

20.00

Conference Banquet: Starlight Room.

**Thursday, 7th May**

**CAPTIVE BREEDING SPECIALIST GROUP  
REGIONAL MEETING**

**Agenda**

**08.30-12.30:** Main Auditorium, Lido de France.

Conservation Assessment and Management Plans (CAMPs):

— Overview

— Global Captive Action Plans & Regional Taxon Advisory Groups (TAGs)

— Review of specific plans: parrots, waterfowl, Australasian marsupials & monotremes, primates, felids, cervids, antelopes

Population and Habitat Viability Assessments (PHVAs).

Faunal Interest Groups (FIGs):

— Regional & global: especially Indonesia-Malaysia & Zaire

Global Animal Survival Plans (GASPs), i.e. global masterplans and programmes for management & propagation of selected taxa:

— Tiger, lion-tailed macaque, orang-utan

Genome banks.

Global Heritage Species: whence & whither?

Further development of global zoo & aquarium strategies & programmes.

**13.30-17.30**

CBSG Steering Committee Meeting.



SESSION IV

**CONTROLLED BREEDING PROGRAMMES, CONSIDERATIONS FOR RE-INTRODUCTIONS AND TRANSLOCATIONS**

**PART 2 Chair:** MR. PETER KARSTEN

*Director, Calgary Zoological Park, Canada.*

10.45 PAUL PEARCE-KELLY  
*Zoological Society of London.*

**Invertebrate propagation: re-introduction programmes.**

11.00 CHRIS ANDREWS  
*National Aquarium in Baltimore.*

**Captive breeding programmes and fish conservation.**

11.15 ROBERT JOHNSON; SIMON TONGE<sup>2</sup> AND QUENTIN BLOXAM<sup>3</sup>  
*<sup>1</sup>Metro Toronto Zoo; <sup>2</sup>New Jersey Wildlife Preservation Trust.*

**Re-introduction of captive-bred amphibians.**

11.30 PETER TOLSON; JOHN BEHLER<sup>2</sup> AND QUENTIN BLOXAM<sup>3</sup>  
*<sup>1</sup>Toledo Zoo; <sup>2</sup>New York Zoological Society; <sup>3</sup>Jersey Wildlife Preservation Trust.*

**Re-introduction potentials for captive-bred reptiles.**

11.45 PEDRO TREBBAU; MARIAN DIAZ<sup>2</sup> AND ESMERALDA MUJICA<sup>3</sup>  
*<sup>1,2,3</sup>National Foundation of Zoological Parks and Aquaria of Venezuela.*

**Captive breeding programmes in Venezuela: joint efforts of zoos and non-governmental organizations.**

12.00 Discussion.

12.20 End of Morning Session.

Lunch: Main Restaurant.

Uda & Ndy. SESSION IV

**CONTROLLED BREEDING PROGRAMMES, CONSIDERATIONS FOR RE-INTRODUCTIONS AND TRANSLOCATIONS**

**PART 3 Chair:** PROFESSOR GUNTHER NOGGE

*Director, Cologne Zoological Garden, Germany.*

14.00 LEOBERT DE BOER  
*National Foundation for Research in Zoological Gardens, The Netherlands.*

**Development of co-ordinated genetic and demographic breeding programmes.**

14.15 JOHN SKINNER<sup>1</sup> AND WILLIE LABUSCHAGNE<sup>2</sup>  
*<sup>1</sup>University of Pretoria; <sup>2</sup>National Zoological Gardens, South Africa.*

**The breeding cycle of eight endangered southern African mammal species at the National Zoological Gardens compared with that in wild populations.**

14.30 JOHN KNOWLES; OLIVER RYDER<sup>2</sup> AND WALTRAUT ZIMMERMAN<sup>3</sup>  
*<sup>1</sup>Marwell Zoological Park; <sup>2</sup>Zoological Society of San Diego; <sup>3</sup>Cologne Zoo.*

**Przewalski's horse conservation.**

14.45 JOSHUA GINSBERG  
*Institute of Zoology, Zoological Society of London.*

**Re-introduction and captive breeding of canids.**

15.00 Discussion.

15.20 Tea and Poster Session: Rear of Auditorium.

300/600 enough with genetic diversity with 10% growth - rats -



SESSION III

**METAPOPULATION MANAGEMENT — IS IT FEASIBLE?**

**PART 2 Chair:** PROFESSOR ROBERT MARTIN  
*University of Zürich, Switzerland.*

10.45 MIKE WALLEY  
*Durrell Institute of Conservation and Ecology.*  
**Conservation biology as an emergent discipline.**

11.00 BILL HOLT  
*Institute of Zoology, Zoological Society of London.*

**Reproductive technologies.**

11.15 ROBIN PELLEW<sup>1</sup> AND TIM JOHNSON<sup>2</sup>  
*<sup>1,2</sup>World Conservation Monitoring Centre.*

**Species extinctions, endangerment and captive breeding.**

11.30 MICHAEL WOODFORD  
*SSC Veterinary Group.*

**Disease risks associated with wildlife translocation projects.**

11.45 ALEXANDRA DIXON  
*Zoological Society of London.*

**Legalities and logistics.**

12.00 Discussion.

12.20 End of Morning Sessions.

12.30 Lunch: Main Restaurant.

14.00 Conference photograph  
(Hotel de France — front entrance).

14.10 Depart for visit to the Jersey Zoological Park, headquarters of the  
Jersey Wildlife Preservation Trust.

15.30 Café Dodo  
(Complimentary afternoon tea served up to 17.30)

17.00- Coaches return to Hotel de France.

17.45

Evening Free.

Wednesday, 6th May

SESSION IV

**CONTROLLED BREEDING PROGRAMMES, CONSIDERATIONS  
FOR RE-INTRODUCTIONS AND TRANSLOCATIONS**

**PART 1 Chair:** PROFESSOR ANTHONY RYLANDS  
*Federal University of Minas Gerais, Brazil.*

08.30 ALISON WILSON<sup>1</sup> AND MARK STANLEY PRICE<sup>2</sup>  
*<sup>1,2</sup>SSC Re-introduction Specialist Group.*

**Re-introduction as a reason for captive breeding.**

08.45 BENJAMIN BECK<sup>1</sup>, LISA RAPAPORT<sup>2</sup> AND MARK STANLEY PRICE<sup>3</sup>  
*<sup>1</sup>National Zoological Park, Washington DC; <sup>2</sup>University of New Mexico; <sup>3</sup>African  
Wildlife Foundation.*

**Re-introduction of captive-born animals.**

09.00 DEVRA KLEIMAN<sup>1</sup>, MARK STANLEY PRICE<sup>2</sup> AND BENJAMIN BECK<sup>3</sup>  
*<sup>1,3</sup>National Zoological Park, Washington DC; <sup>2</sup>African Wildlife Foundation.*

**Criteria for re-introduction.**

09.15 JEFFREY BLACK<sup>1</sup> AND PAUL BANKO<sup>2</sup>  
*<sup>1</sup>Wildfowl and Wetlands Trust; <sup>2</sup>US Fish and Wildlife Service.*

**Conservation programme for the Hawaiian goose.**

09.30 WILLIAM TOONE<sup>1</sup> AND MIKE WALLACE<sup>2</sup>  
*<sup>1</sup>San Diego Wild Animal Park; <sup>2</sup>Los Angeles Zoo.*

**Extirpation and re-introduction of the California condor.**

09.45 Discussion.

10.10 Coffee and Poster Session: Rear of Auditorium.



SESSION II  
**INTERFACE BETWEEN THE WILD AND CAPTIVITY**

- PART 3 Chair: MR. FREDERICK DAMAN**  
*Director, Royal Zoological Society of Antwerp, Belgium.*
- 15.45 VLADIMIR FLINT  
*Research Institute of Nature Conservation, Russia.*  
**Captive breeding and re-introduction programmes in the USSR before and after dissolution.**
- 16.00 VIV WILSON  
*Chipangali Wildlife Trust, Zimbabwe.*  
**The development of captive breeding programmes in African zoos.**
- 16.15 M. SUBBA RAO  
*SSC Crocodile Specialist Group.*  
**Distribution, conservation and management in captivity of the Indian gharial (*Garialus gangeticus* Gmelin).**
- 16.30 WILLIAM OLIVER  
*SSC Pigs and Peccaries Specialist Group.*  
**Threatened endemic mammals of the Philippines: an integrated approach to the management of wild and captive populations.**
- 16.45 CARL JONES; WENDY STRAHM? YOUSOOF MUNGROO?  
 ESHAN DULLOO; JOHN HARTLEY<sup>5</sup> AND GREG MIDDLETON<sup>6</sup>  
<sup>1,3</sup>Jersey Wildlife Preservation Trust; <sup>2</sup>WWF/IUCN; <sup>3,4,6</sup>Mauritius Government Conservation Unit.  
**Two decades of conservation on Mauritius and Rodrigues: species conservation, re-introduction, habitat rehabilitation and the development of a national park.**
- 17.00 Discussion.
- 18.30-19.15 Vin d'Honneur: Starlight Room.  
 Hosted by Senator Dick Shenton,  
*President of the States of Jersey Tourism Committee.*  
 Evening Free.

Tuesday, 5th May 1988  
**SESSION III**

**METAPOULATION MANAGEMENT — IS IT FEASIBLE?**

- PART 1 Chair: DR. OLIVER RYDER**  
*Zoological Society of San Diego, USA.*
- 08.30 ULYSSES SEAL  
*SSC Captive Breeding Specialist Group.*  
**Population and habitat viability assessments and endangered species management plans.**
- 08.45 TOM FOOSE  
*SSC Captive Breeding Specialist Group.*  
**Global Captive Action Plans.**
- 09.00 SARAH DURANT<sup>1</sup> AND GEORGINA MACE<sup>2</sup> *Not so*  
<sup>1,2</sup>*Institute of Zoology, Zoological Society of London.*  
**Species differences and population structure in population viability analysis.** *interesting*
- 09.15 ROBERT WAYNE  
*Institute of Zoology, Zoological Society of London.*  
**Criteria and molecular genetic techniques for the recognition of animal species and subspecies.** *← genetics*
- 09.30 JOHN CRAIG *NZ*  
*University of Auckland, New Zealand.*  
**Subspecies - genetic principles**
- 09.45 Discussion.  
**Metapopulations: is management as flexible as nature?**
- 10.10 Coffee and Poster Session: Rear of Auditorium. *break*
- Wm. Smith: Edinburgh Mrs. Knowles*  
*Dhawan Cincinnati (Marwell)*  
*Isaacs - NZ*  
*Dundsey - Whipsnade*





SESSION II

INTERFACE BETWEEN THE WILD AND CAPTIVITY

**PART 1 Chair:** DR. WILLIAM CONWAY  
*General Director, New York Zoological Society, USA.*

- 10.45 ULYSSES SEAL  
*SSC Captive Breeding Specialist Group (CBSG).*  
**Role of CBSG: catalyst and co-ordinator for intensive management of threatened small populations.**
- 11.00 KRISZTINA VASARHELYI<sup>1</sup> AND ROBERT MARTIN<sup>2</sup>  
*<sup>1,2</sup>University of Zurich, Switzerland.*  
**University-based research and the management of wild and captive populations.**
- 11.15 DAVID WAUGH<sup>1</sup> AND CHRISTEN WEMMER<sup>2</sup>  
*<sup>1</sup>Jersey Wildlife Preservation Trust; <sup>2</sup>National Zoological Park, Front Royal.*  
**Training in zoo biology: two approaches to enhance the conservation rôle of zoos in the tropics.**
- 11.30 RUSSELL MITTERMEIER<sup>1</sup> AND WILLIAM KONSTANT<sup>2</sup>  
*<sup>1</sup>Conservation International (CI); <sup>2</sup>CI and Philadelphia Zoo, USA.*  
**The interface between wild and captive populations.**
- 11.45 JAMES DIETZ<sup>1</sup> AND LOU ANN DIETZ<sup>2</sup>  
*<sup>1</sup>University of Maryland; <sup>2</sup>WWF - US.*  
**The effective use of flagship species for conservation of biological diversity: the example of lion tamarins in Brazil.**
- 12.00 Discussion.
- 12.20 End of Morning Session.
- 12.30 Speakers Buffet: Golden Lounge.
- 12.40 Delegates Lunch: Main Restaurant.

SESSION II

INTERFACE BETWEEN THE WILD AND CAPTIVITY

**PART 2 Chair:** MR. BENT JØRGENSEN  
*Director, Copenhagen Zoo, Denmark.*

- 14.00 MICHAEL KOCK  
*Dept. of National Parks and Wildlife Management, Zimbabwe.*  
**Survival of the black rhinoceros in Zimbabwe: is there a need for a bridge between *in situ* protection in the wild and *ex situ* research/captive breeding programmes?**
- 14.15 PAUL GARLAND<sup>1</sup> AND DAVID BUTLER<sup>2</sup>  
*<sup>1</sup>Orana Park Wildlife Trust; <sup>2</sup>New Zealand Department of Conservation.*  
**Interface between captive and wild populations of New Zealand fauna.**
- 14.35 LEE DURRELL; RAYMOND RAKOTONINDRINA; DON REID<sup>3</sup> AND JOANNA DURBIN<sup>4</sup>  
*<sup>1,3</sup>Jersey Wildlife Preservation Trust; <sup>2</sup>Association Nationale pour la Gestion des Aires Protégées de Madagascar; <sup>4</sup>Durrell Institute of Conservation and Ecology.*  
**Recovery of the angonoka: an integrated approach to species conservation.**
- 14.45 BAS VAN BALEN<sup>1</sup> AND HARWONO GEPAK<sup>2</sup>  
*<sup>1</sup>International Council for Bird Preservation; <sup>2</sup>Surabaya Zoo, Indonesia.*  
**The captive breeding and conservation programme of the Bali starling.**
- 15.00 JÖRG ADLER<sup>1</sup> AND ROLAND WIRTH<sup>2</sup>  
*<sup>1</sup>Allwetter Zoo, Münster; <sup>2</sup>ICBP Specialist Group Co-ordinator.*  
**Species conservation priorities in Vietnam and the potential rôle of zoos.**
- 15.15 Discussion.
- 15.25 Tea and Poster Session: Rear of Auditorium.



**WELCOME TO THE SIXTH WORLD CONFERENCE**

The Conference Organizers would like to welcome you to the Sixth World Conference on Breeding Endangered Species: The Role of Zoos in Global Conservation. The presentations address how the work of the captive breeding community relates to the wild, what is being done to help species and habitats survive, and what will be the contributions for the future.

The challenge is considerable. But the zoo world is uniquely equipped to provide the skills and resources which will be required to help manage increasingly restricted wildlife populations. This potential is recognized in the development of this conference: from a catalogue of captive breeding successes in 1972 to a full review of global activities and objectives in 1992. The conference will take the opportunity to highlight the interface between the management of wild and captive populations of endangered species.

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**THE SIXTH WORLD CONFERENCE  
ON BREEDING ENDANGERED SPECIES**

**The Role of Zoos in Global Conservation**

4th - 6th May, 1992  
Jersey, Channel Islands

**Sunday, 3rd May**

Registration  
Hotel de France: Golden Lounge.

**Monday, 4th May**

07.30 Registration  
Hotel de France: Arcade.

**SESSION I**

**OPENING CEREMONY**

*Chair: JURAT G. H. HAMON  
Chairman of the Jersey Wildlife Preservation Trust.*

08.45 Delegates to be seated: Main Auditorium, Lido de France.

09.00 HER ROYAL HIGHNESS THE PRINCESS ROYAL  
*Patron of the Jersey Wildlife Preservation Trust.*

GERALD DURRELL, OBE, LHD, DSc, FI Biol  
*Founder and Honorary Director of the Jersey Wildlife Preservation Trust.*

ROGER J. WHEATER, OBE, FI Biol, FRSA, FRSE  
*Council Member of Fauna and Flora Preservation Society and the Zoological Society of London; Director, Royal Zoological Society of Scotland.*

09.40 KEYNOTE ADDRESS by

PROFESSOR DAVID BELLAMY, BSc, PhD, DSc, FI Biol, FI Env Sc  
*Founding Director, The Conservation Foundation (UK).*

10.15 Coffee Break — Poster Session: Rear of Auditorium.