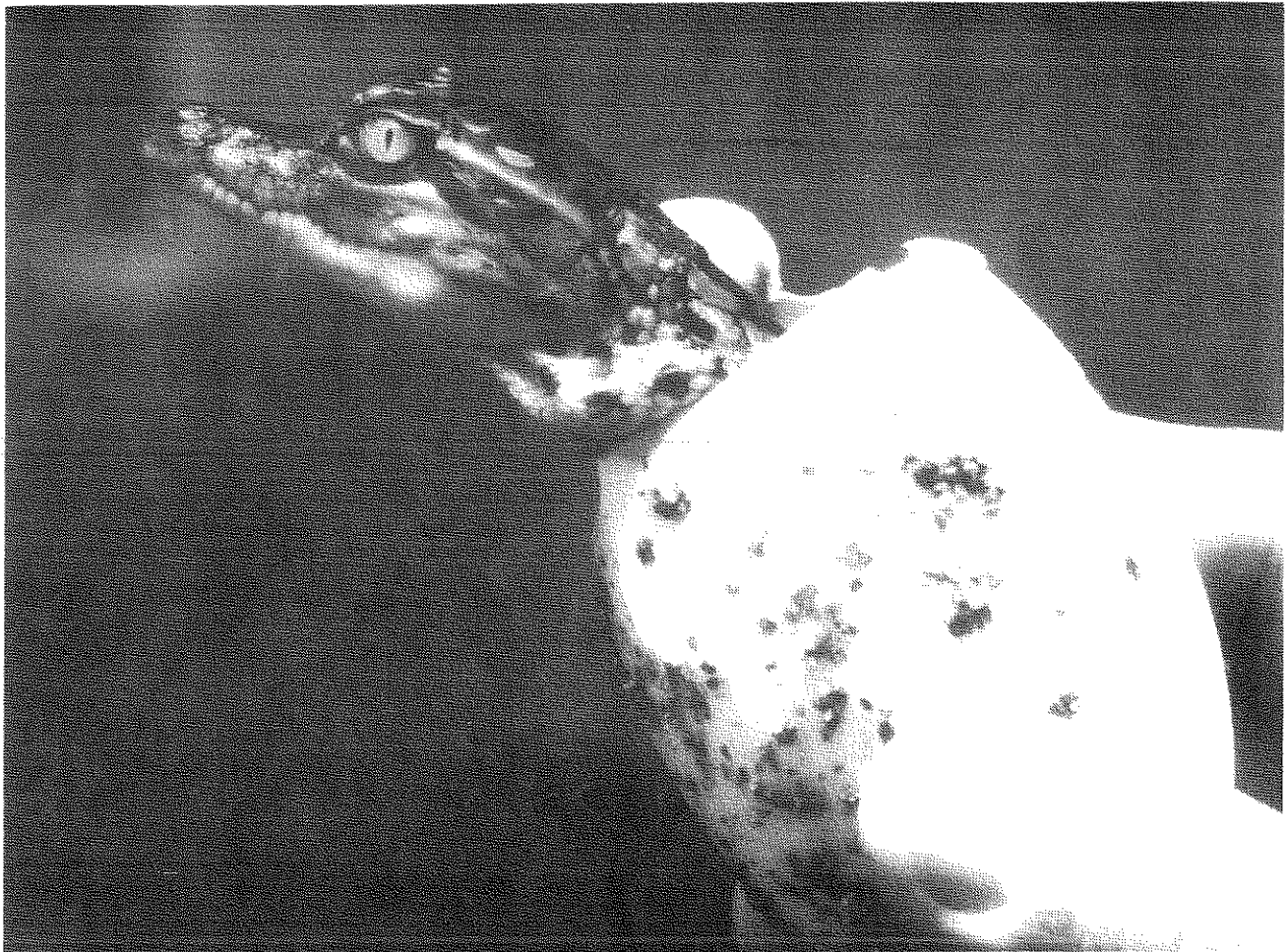


# **CROCODILE SPECIALIST GROUP**

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## **NEWSLETTER**

VOLUME 8 ■ JANUARY 1989 - MARCH 1989



International Union for Conservation of Nature and Natural Resources ■ Species Survival Commission

# CROCODILE SPECIALIST GROUP

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## NEWSLETTER

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VOLUME 8  
JANUARY 1989 - MARCH 1989

International Union for  
Conservation of Nature and  
Natural Resources

Species Survival Commission

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COVER PHOTO: Hatchling *Crocodylus*  
*siamensis*. St. Augustine Alligator Farm photo.

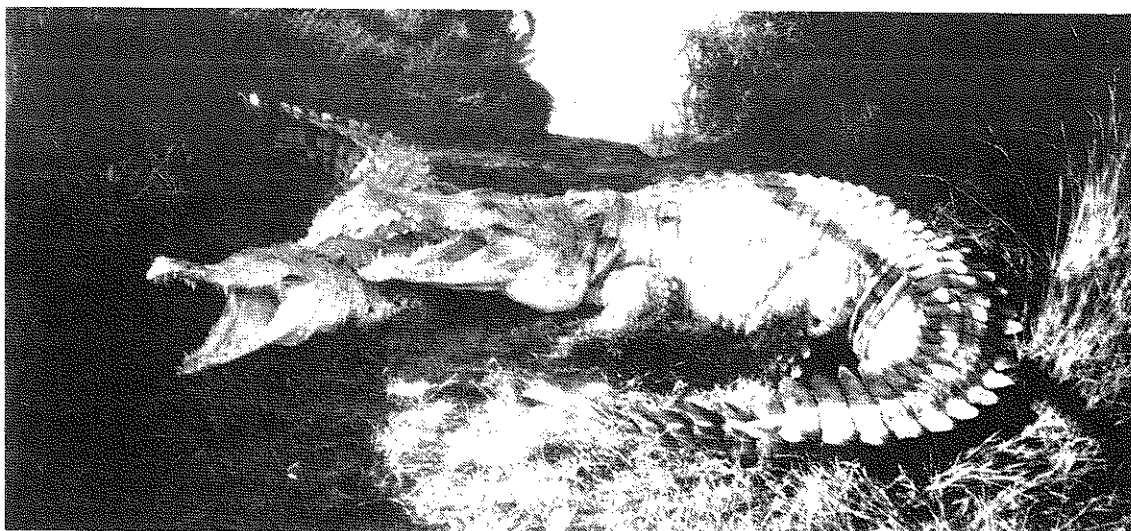
## EDITORIAL COMMENT

The last two years have seen phenomenal growth in the Crocodile Specialist Group and in its conservation activities. The first meeting of the CSG in 1971 was attended by only 17 people, while 132 participated in the 9th Working Meeting in Lae, Papua New Guinea, in 1988. During that same period, the membership swelled from approximately 12 members to the present 78 members and 27 correspondents scattered through 30 nations. Growth also has involved enlistment of crocodilian farmers and members of the hide trade into the work of the CSG, though scientists still predominate.

The growth has dramatically increased the group's need to communicate. The conservation status of many crocodilians changes so fast that at its 1971 meeting, the CSG decided it had to meet every second year. Less frequent meetings would not allow the group to respond as rapidly as required. The need for increased communication was one of the reasons behind the recent decision to form a Steering Committee to assist the chairman with the work of the CSG (see the CSG STEERING COMMITTEE section). Though members keep in touch by mail and telephones between meetings, the NEWSLETTER opened lines of communication to interested people all over the world.

The NEWSLETTER started as a typewritten mimeographed sheet, but under the 1984 to 1989 editorship of Peter Brazaitis and Myrna Watanabe, it blossomed into a professionally published periodical that is mailed to more than 360 people around the world.

However, the increased responsibilities associated with Peter's new position as the New York Zoological Society's general curator of the Central Park Zoo, and the busy schedule imposed by Myrna's biological consulting company left the two of them with less and less time to devote to the NEWSLETTER. Rather than continue to produce a single issue each year at a time when more, not less, communication is needed, Peter and Myrna have turned production of the NEWSLETTER over to the CSG chairman and John Polisar, a graduate student in the wildlife program at the University of Florida. Peter will remain a contributing editor; a



Mated pair of Orinoco crocodiles, *Crocodylus intermedius*, in the breeding program on Hato Masaguaral, Venezuela. Alejandro Terins photo.

reflection of the number of people who regularly correspond with him.

Please join me in thanking Peter and Myrna for all their years of dedicated service to the NEWSLETTER.

Readers probably have noticed the look of the NEWSLETTER is evolving with each issue. Volume 6 (1987) was printed on a glossy paper with the name of the Crocodile Specialist Group in capital and lower case italics. Volume 7 (1988) was printed on unglazed paper with the name in non-italic capitals, a style that is reflected in the present issue. Simple as they are, these changes reduce the printing costs by 90%. I hope you agree that these changes do not distract significantly from the quality of the NEWSLETTER. -- Prof. F. Wayne King.

## AREA REPORTS

### NORTH AMERICA

#### United States:

The American Alligator Farmers Association sponsored a CROCODILIAN CONGRESS in Tampa, Florida, from 23 to 26 February 1989, which explored "Production and Marketing Strategies for the 1990'S." With more than 170 people in attendance, the congress was the largest crocodilian conference ever convened.

Participants came from as far away as Australia, Colombia, France, Honduras, Indonesia, Israel, Japan, Kenya, Mexico, Papua New Guinea, South Africa, Venezuela, Zimbabwe, and Zambia, as well as from Florida, Georgia, Louisiana, South Carolina, and Texas in the U.S.A. The agenda included:

#### NORTH AMERICAN PROGRAMS

- Pat McIntosh, U.S. Fish and Wildlife Service, Division of Law Enforcement - Federal regulations and law enforcement.
- Barry L. Cook, Florida Game and Fresh Water Fish Commission, Division of Law Enforcement - Regulating possession, captive propagation, and sale of the American alligator in Florida.
- Dennis David, Florida Game and Fresh Water Fish Commission - Florida alligator farm annual harvest levels, past and future.
- Allan Woodward, Florida Game and Fresh Water Fish Commission - Alligator egg and hatchling harvest strategies in Florida.
- Bruce Thompson, Texas Parks and Wildlife Department - The Texas alligator management program.
- Steve Ruckel, Georgia Department of Natural Resources, Wildlife Division - Alligator management in Georgia.
- Peter Swiderek, South Carolina Wildlife and Marine Resources Department - South Carolina's alligator program.

#### INTERNATIONAL PROGRAMS

- Victor Onions, Edward River Crocodile Farm, Queensland, Australia - Crocodile farming in Australia.
- Prof. F. Wayne King, Florida Museum of Natural History - The relationship between classic hides and caiman flanks, and hide production in Central and South America.
- Eric Fernandez, Banco Continental, San Pedro Sula, Honduras - Crocodilian farming in Honduras.
- Miguel A. Rodriguez, Monterrey Forestal, Cartagena, Colombia - Monterrey Forestal's crocodile and caiman farm at Zambrano, Colombia.
- Johan Marais, Assagay Safari Park, South Africa - Farming of *Crocodylus niloticus* in the Republic of South Africa: A strategy for profitable production.
- A.C. Pooley, Natal, South Africa - The development and current status of crocodile farming in South Africa.
- Shlomi Ranot, Gator Jungle, Christmas, Florida - International Crocodilian Farmers Association.

#### CAPTIVE HUSBANDRY

- Don Morgan, CST Gator Farm, Keystone Heights, Florida, and Shlomi Ranot, Gator Jungle, Christmas, Florida - Design of controlled environment rearing houses for crocodilians.
- Dr. Elliott Jacobson, College of Veterinary Medicine, University of Florida - An overview of disease problems in crocodilians.
- Dr. Paul Cardeilhac, College of Veterinary Medicine, University of Florida - Husbandry and medical practices that increase reproductive efficiency of captive alligators.
- Dr. Kent Vliet, Department of Zoology, University of Florida - Implications of alligator social behavior on farm management.
- Michael Jennings, Florida Game and Fresh Water Fish Commission - An evaluation of alligator hatchling marking techniques.
- Dr. Thomas Lane, College of Veterinary Medicine, University of Florida - Application of microchip technology to alligator farming.

- John Behler, New York Zoological Park - Breeding crocodilians in zoos: Lessons in intensive management.
- Dr. I. Lehr Brisbin, Savannah River Ecology Lab, University of Georgia - Growth analysis and its application to domestication and propagation of crocodilians.

#### PRODUCTION STANDARDS, MARKETING, AND INFORMATION DATABASES

- Paul Zajicek, Florida Department of Agriculture and Consumer Services - Marketing farm-raised alligator hides, an unusual agricultural commodity.
- Dr. Fred W. Leak, Department of Animal Science, University of Florida - Analysis of Florida alligator meat: A wholesome food product.
- Dr. Murat Balaban, Department of Animal Science, University of Florida - Alligator fat, characterization and uses.
- K. Domez, Florida Reptile Tanning Company - Preparation of raw crocodilian hides for tanning; the problems and the cures.
- Johan Marais, Assagay Safari Park, South Africa - 'Croclit,' a computerized catalogue of crocodilian literature.

In addition, John Hutton, Zimbabwe Department of National Parks and Wildlife Management, spoke extemporaneously on crocodilian farming techniques. Though he had no data to back up his statement, John began his presentation with a declaration that much of what earlier speakers had presented as improved rearing methods was "bull shit."

Fieldtrips following the conference visited Florida Reptile Tanning Company, Gator Jungle of Plant City, and Gatorland Zoo of Kissimmee.

The American Alligator Farmers Association was founded in Florida in October 1986 to serve the alligator industry through research, education, and representation to regulatory agencies. The regular quarterly meetings of the association feature presentations on state, federal, and international regulations, improved alligator husbandry, farming techniques, hide and meat preparation, and marketing programs, from members, university researchers and veterinary medical staff, state regulatory officers, and trade experts. Full voting membership is restricted to alligator farmers, though 15 hide and meat buyers, tanners, and

manufacturers are associate members. A second chapter is now active in Georgia.

## **AUSTRALIA**

Charles A. (Andy) Ross, Division of Birds, U.S. National Museum of Natural History, Washington, D.C., is consulting editor on a book entitled, CROCODILES AND ALLIGATORS, being published by Weldon Owen Publishing Ltd., of Sydney. Authors from all over the world are contributing chapters on evolution; structure and function; alligators; caimans; crocodiles; dwarf crocodiles, Tomistoma, and the gharial; food and mortality; social behavior; reproduction; habitat; attacks on man; commercial utilization; farming and ranching; and conservation. On the original production schedule the book would have been completed at the end of 1988, but difficulties in finding authors for some chapters has delayed its appearance.

## **CSG 9TH WORKING MEETING**

The 9th Working Meeting of the CSG was hosted by Mainland Holdings Ltd., in Lae, Papua New Guinea from 18 to 21 October 1988. With 132 registered participants, it was the largest CSG meeting to date.

The agenda included:

### **REPORTS ON THE CONSERVATION STATUS OF CROCODILIANS**

- Jack Cox - Distribution and status of crocodile populations in Irian Jaya, Indonesia.
- Martin Hollands & Jack Cox - Status of Papua New Guinea crocodile populations.
- Ted Joanen - Classification and population status of the American alligator.
- Harry Messel, George Vorlicek, William Green, and Ian Onley - Resurvey of the saltwater crocodile population in the tidal waterways of Port Musgrave, Cape York Peninsula, Queensland, Australia, August 1987.
- Andres E. Seijas - Status of the American crocodile, *Crocodylus acutus*, in Venezuela.

- Laurie Taplin - Population status and management of the estuarine crocodile in Queensland, Australia.
- John Thorbjarnarson - Status and ecology of the Orinoco crocodile, *Crocodylus intermedius*, in Venezuela.

### **REPORTS ON FARMING/RANCHING PROGRAMS**

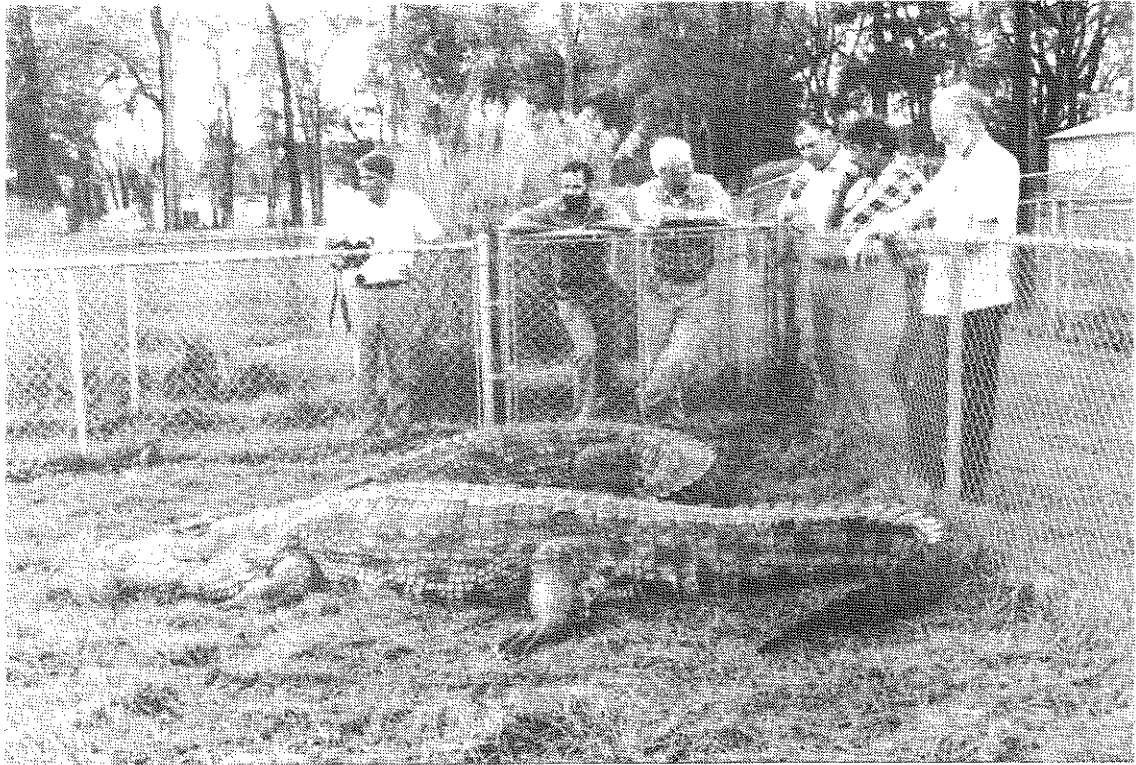
- Ted Joanen - Status of alligator farming in Louisiana, U.S.A.
- John Lever - International Crocodile Bank.
- Richard Tan - Crocodile management in Jurong Crocodile Paradise, Singapore.
- Kevin van Jaarsveldt - Southern African commercial crocodile farms.

### **REPORTS ON MANAGEMENT PROGRAMS**

- Jack Cox - Crocodile resource management in Indonesia: Problems, policies, and progress.
- Development of a management program for the caiman population in the Orinoco delta, Venezuela.
- Martin Hollands & Jack Cox - Experimental egg harvests in Papua New Guinea.
- Dietrich Jelden - A new marking system for leather products manufactured of skin of CITES listed reptile species.
- Wayne King - CITES Latin American surveys: A progress report.
- Gonzalo Medina & Eduardo Cartaya - Review of the Venezuela program.
- M.P. Simbotwe - Management and farming in Botswana.
- John Thorbjarnarson - The SSC/CSG Action Plan for crocodilians.
- Kevin van Jaarsveldt - Marketing trends in crocodile and exotic leathers.
- Grahame Webb - Monitoring saltwater crocodiles in the Northern Territory, Australia.

### **REPORTS ON ADVANCES IN CROCODILIAN RESEARCH**

- Peter Bayliss - Population dynamics of estuarine crocodiles in Australia.
- I. Lehr Brisbin - Sigmoid growth modes for crocodilians: Applications to captive propagation and management programs.
- Jack Cox - Crocodile nesting ecology in Irian Jaya, Indonesia.



Tony Pooley, Laurie Taplin, Phil Wilkinson, Ted Joanen, Ken Earnest, and Wayne King viewing Nile crocodiles, *Crocodylus niloticus*, on February 1989 visit to the St. Augustine Alligator Farm's Crocodilian Center in Ocala, Florida, U.S.A. Harry Messel photo.

- Chris Foggin - The effects of temperature on growth and disease of farmed Nile crocodiles.
- Phil Hall - Variation in geographic isolates of the New Guinea crocodile, *Crocodylus novaeguineae* Schmidt.
- Phil Hall - Reproductive demography of a temperate crocodilian and a tropical crocodilian: A preliminary analysis of morphometry, birth mode, and harvest implications.
- Howard Hunt - Aggressive behavior of adult *Alligator mississippiensis* in Okefenokee Swamp, Georgia, U.S.A.
- Ted Joanen - An occurrence of freeze mortality in alligators in Louisiana, U.S.A.
- William Magnusson & Mark Hero - Surgery as a technique for discriminating sex in hatchlings.

#### AUDIOVISUAL PRESENTATIONS

- Rene Haller - Integration of crocodile and *Tilapia* farming.

- M.P. Simbotwe - Okavango Swamp Crocodile Farm capture techniques.
- Grahame Webb - Saltwater crocodile in the Northern Territory, Australia.

Mainland Holdings hosted a day trip to its crocodile farm, and arranged for post-meeting fieldtrips to Ambunti on the Sepik river in the north and to Tari in the central highlands. In Ambunti, the participants had the chance to join the regular team surveying crocodile nests by helicopter.

Visits also were arranged to the Ilimo Crocodile Farm near Port Moresby, and to the government's former crocodile training farm at Moitaka (now a zoo).

Many participants took advantage of having to pass through Australia on the way to and from Papua New Guinea by visiting colleagues, farms, and crocodile programs in Queensland and Northern Territory. The Queensland National Parks and Wildlife Service and the Edward River Crocodile Farm organized pre-meeting fieldtrips to the croc farm and to Port Musgrave.



By any measure, our PNG and Australia colleagues, Graham Goudie and the staff of Mainland Holdings, and Laurie Taplin, Peter Bayliss, and Vic Onions, set a high standard for organization and hospitality that future hosts may find hard to meet.

The PROCEEDINGS OF THE 9TH WORKING MEETING, which will appear later this year, will contain a complete report on the meeting, including the decisions taken in the business session.

## CSG STEERING COMMITTEE

At the 9th Working Meeting of the CSG in Lae, Papua New Guinea, in October 1988, the CSG members approved the establishment of a Steering Committee to aid the chairman and advise on all aspects of the work of the group. The Steering Committee is composed of a representative from each of the five producing regions, Africa, Asia, Australia and Oceania, Central and South America, and North America and the Caribbean, a representative of a trade monitoring organization, and a representative of the hide and meat trade, plus the chairman and deputy chairman of the CSG. In addition, a member of the CITES Secretariat serves as an *ex officio* member of the committee. In order to respond more rapidly to requests from the interested public, from governmental agencies, and from intergovernmental bodies, the Steering Committee will meet at least once, and preferably twice a year. Communications between meetings will be maintained by fax, telephone, and post.

The first meeting of the Steering Committee was convened at the Florida Museum of Natural History, Gainesville, on 20 and 21 February 1989. Three of the nine members could not attend because of scheduling conflicts and/or funding difficulties. To overcome the latter problem, a fundraising effort is being launched to provide committee members with the resources needed to fulfill their new duties.

In so far as possible, regional concerns have been delegated to the regional representatives, and trade monitoring and trade concerns, respectively, to those representatives on the

Steering Committee. If you have questions, please refer them to the appropriate member of the Steering Committee:

### CSG CHAIRMAN:

Prof. F. Wayne King  
Florida Museum of Natural History  
Gainesville, Florida 32611, USA  
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fax: (1) (904) 392-9367

### DEPUTY CSG CHAIRMAN:

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School of Physics  
University of Sydney  
Sydney NSW 2006  
Australia  
tel: (61) (2) 692-3383  
fax: (61) (2) 660-2903

### REPRESENTING AFRICA:

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Binga Products (Pvt) Ltd  
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Harare  
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fax: (263) 70-6122

### REPRESENTING ASIA:

Romulus Whitaker  
Madras Crocodile Bank  
Perur P.O., Mahabalipuram Rd  
Vadanemmeli Village  
Tamil Nadu, 603 104 India  
tel.: (91) (44) 414832

### REPRESENTING AUSTRALIA & OCEANIA:

Dr. Laurie Taplin  
Queensland National Parks & Wildlife  
Service  
P.O. Box 5391  
Townsville Mail Centre  
QLD 4810 Australia  
tel: (61) (77) 74-1411  
fax: (61) (77) 74-1464

### REPRESENTING CENTRAL & SOUTH AMERICA:

Juan Villalba-Macias  
TRAFFIC(SudAmerica)  
Carlos Roxlo 1496/301  
Montevideo, Uruguay  
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fax: (598) (2) 60-0351

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CARIBBEAN:

Ted Joanen

Louisiana Wildlife & Fisheries

Commission

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Grand Chenier, LA 70643 USA

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fax: (1) (318) 491-2595

REPRESENTING THE TRADE:

Graham Goudie

Mainland Holdings Ltd

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Lae, Papua New Guinea

tel: (675) 42-3510

fax: (675) 42-1471

REPRESENTING A TRADE MONITORING GROUP:

Ms. Ginette Hemley

TRAFFIC / USA

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Washington, D.C. 20037 USA

tel: (1) (202) 293-4800

fax: (1) (202) 293-9211

EX OFFICIO MEMBER REPRESENTING THE CITES

SECRETARIAT:

Dr. Obdulio Menghi

CITES Secretariat

Case Postale 78

CH-1000 Lausanne 9

Switzerland

tel: (41) (21) 20-0081

fax: (41) (21) 20-0084

## CSG MEMBERS

Under the IUCN guidelines for choosing members of the Specialist Groups of the Species Survival Commission, the chairman of each group nominates top international experts for membership in his or her group. The chairman of the SSC reviews the list of nominees, during which he may add or delete names of his own choice. He then approves the appointments. Full voting members are chosen not just for their particular expertise, but also for their concern for conservation and for their responsiveness to queries. Members are not chosen solely from professional scientists, since qualified amateurs and other experts frequently make excellent

members. Finally, it is important that the group be international, that its members be nationals of the countries involved, so as to avoid regional biases.

The following are full members of the CSG:

- Dr. Clarence Abercrombie - U.S.A. (independent biologist).  
Dr. Federico Achaval - Uruguay (independent biologist).  
Dr. A. C. Alcala - Philippines (independent biologist).  
Dr. Miguel Alvarez del Toro - Mexico (independent biologist).  
Dr. Eduardo Asanza - Ecuador (independent biologist).  
Olivier Behra - France (independent biologist).  
David Blake - South Africa (government biologist).  
Tomas Blohm - Venezuela (farmer).  
Peter Brazaitis - U.S.A. (independent biologist).  
Dr. I. Lehr Brisbin - U.S.A. (independent biologist).  
B. C. Choudhury - India (government biologist).  
Dr. Stephen Cornelius - U.S.A. (independent biologist).  
Jack Cox - Indonesia (government biologist).  
Peter Crawshaw - Brazil (government biologist).  
Dr. J.C. Daniel - India (independent biologist).  
Dennis David - U.S.A. (government biologist).  
Dr. Kenneth C. Dodd - U.S.A. (government biologist).  
Mario Espinal - Honduras (government biologist).  
Dr. Mark W.J. Ferguson - United Kingdom (independent biologist).  
Karlheinz Fuchs - Federal Republic of Germany (tanning engineer).  
I. Games - Zimbabwe (independent biologist).  
John-Mark Genolagani - Papua New Guinea (government biologist).  
Dr. Stefan Gorzula - Venezuela (independent biologist).  
Graham Goudie - Papua New Guinea (farmer).  
Dr. Gordon Grigg - Australia (independent biologist).  
Claire Hagen - U.S.A. (leather fashion designer).  
R. D. Haller - Kenya (farmer).  
Ms. Ginette Hemley - U.S.A. (trade monitoring adviser).  
Martin Hollands - United Kingdom (independent biologist).  
Rene Honegger - Switzerland (independent biologist).



- Tracy Howell - U.S.A. (farmer).  
 Dr. Huang Chu-Chien - People's Republic of China (independent biologist).  
 Dr. John M. Hutton - Zimbabwe (government biologist).  
 Dr. Dietrich Jelden - Federal Republic of Germany (government biologist).  
 Ted Joanen - U.S.A. (government biologist).  
 Dr. Sudhakar Kar - India (government biologist).  
 Dr. Mod. A. Reza Khan - Bangladesh (independent biologist).  
 Satoshi Kimura - Japan (farmer).  
 Prof. F. Wayne King - U.S.A. (independent biologist).  
 Dr. Valentine A. Lance - U.S.A. (independent biologist).  
 Marco Antonio Lazcano - Mexico (independent biologist).  
 John Lever - Australia (farmer).  
 Dr. John P. Loveridge - Zimbabwe (independent biologist).  
 Richard Luxmore - United Kingdom (trade monitoring adviser).  
 Larry McNease - U.S.A. (government biologist).  
 Dr. William Magnusson - Brazil (independent biologist).  
 Tirtha Maskey - Nepal (government biologist).  
 Dr. Frank J. Mazzotti - U.S.A. (independent biologist).  
 Prof. Harry Messel - Australia (independent biologist).  
 Greg Mitchell - Papua New Guinea (farmer).  
 Paul Moler - U.S.A. (government biologist).  
 Don Morgan - U.S.A. (farmer).  
 J.N.B. Mphande - Malawi (government biologist).  
 J. T. Victor Onions - Australia (farmer).  
 Jose Alberto Ottenwalder - Dominican Republic (independent biologist).  
 Jesus Ernesto Pachon - Colombia (government biologist).  
 A. C. Pooley - South Africa (independent biologist).  
 George Rebelo - Brazil (independent biologist).  
 Miguel A. Rodriguez - Colombia (independent biologist).  
 Andres Eloy Seijas - Venezuela (government biologist).  
 Dr. M.P. Simbotwe - Botswana (government biologist).  
 Dr. Lala A.K. Singh - India (government biologist).  
 Dr. Laurie Taplin - Australia (government biologist).  
 John Thorbjarnarson - U.S.A. (independent biologist).  
 Ana Maria Trelancia - Brazil & Peru (independent biologist).  
 Kevin van Jaarsveldt - Zimbabwe (farmer).  
 Ing. Pedro Vasquez Ruesta - Peru (independent biologist).  
 Dante H. Videz Roca - Bolivia (independent biologist).  
 Juan Villalba-Macias - Uruguay (trade monitoring adviser).  
 Dr. Kent Vliet - U.S.A. (independent biologist).  
 W. Ekke Waitkuwait - Federal Republic of Germany (independent biologist).  
 Myrna Watanabe - U.S.A. (independent biologist).  
 Romulus Whitaker - India (farmer).  
 John M. Wilmot - Papua New Guinea (government biologist).  
 Jay Wilson - U.S.A. (tanner).  
 Allan Woodward - U.S.A. (government biologist).  
 Carlos Yamashita - Brazil (government biologist).  
 R. Zohlo - Mozambique (government biologist).
- In the above register of CSG members, the sole distinction between an 'independent' and a 'government' biologist is whether that member works for a university or other independent organization, or for a local, provincial, state, federal, or intergovernmental wildlife agency. Though they are grouped here with the biologists, some of the government people are directly involved in administration and/or law enforcement.
- The current 78 CSG members are located in the following geographic areas:
- |                           |    |
|---------------------------|----|
| Africa                    | 10 |
| Asia                      | 11 |
| Australia & Oceania       | 10 |
| Europe                    | 7  |
| Central & South America   | 18 |
| North America & Caribbean | 22 |
- The members are drawn from the following fields:
- |                       |    |
|-----------------------|----|
| Independent biologist | 36 |
| Government biologist  | 25 |
| Farmer                | 11 |
| Tanner/industry       | 3  |
| Trade monitoring      | 3  |

## CSG CORRESPONDENTS

Though they participate in all activities of the group, correspondents are non-voting members of the CSG. The selection process for correspondents is similar to that for full members.

The following are correspondents:

Don Ashley - U.S.A. (trade consultant).  
 Peter Bayliss - Australia (government biologist).  
 John L. Behler - U.S.A. (independent biologist).  
 Ms. Zilca Campos - Brazil (independent biologist).  
 Jerone Caraguel - Venezuela (tanner).  
 Eduardo Cartaya - Venezuela (independent biologist).  
 Paul Craig - Papua New Guinea (farmer).  
 Michael Davenport - U.S.A. (independent biologist).  
 Floris Deodatus - Central African Republic (government biologist).  
 Dr. Jose Léano Diaz - Philippines (farmer).  
 Tommy Hines - U.S.A. (independent biologist).  
 Noboru Ishii - Japan (tanner).  
 Dr. James A. Kushlan - U.S.A. (independent biologist).  
 Dr. Leonel Rosales Loesener - Guatemala (government biologist).  
 Johan Marais - South Africa (farmer).  
 Patrick McIntosh - U.S.A. (government biologist).  
 Philippe Roggwiller - France (tanner).  
 Jose Ayarzagüena Sanz - Venezuela (independent biologist).  
 Dr. Mark A. Staton - U.S.A. (independent biologist).  
 Yoichi Takahara - Japan (tanner).  
 Sadao Tambe - Japan (independent biologist).  
 Richard Tan Chye Hock - Singapore (farmer).  
 Roberto Ramos Targarona - Cuba (government biologist).  
 Ing. Lorgio Verdi O. - Peru (independent biologist).  
 Earl Junier Wade - Costa Rica (government biologist).  
 Dr. Grahame J.W. Webb - Australia (independent biologist).  
 Mark Wise - U.S.A. (farmer).

Charoon Youngprapakorn - Thailand (farmer).

The 28 correspondents come from the following geographic regions:

Africa	2
Asia	6
Australia & Oceania	3
Europe	1
Central & South America	7
North America & Caribbean	9

They represent the following fields of interest:

Independent biologist	11
Government biologist	7
Farmer	5
Tanner/industry	5

## TRADE

The following 1988 price, in U.S. dollars, was reported to Prof. King:

*Crocodylus novaeguineae* in Irian Jaya, Indonesia:  
 raw salted belly hides = \$5.20 / cm width.

