

TEACHERS FOR TIGERS



Report on
Workshop at

Pench Tiger Reserve

Pench, Madhya Pradesh, India

23 – 25 June 2004

By
Amit Chavan and J. Murali

Workshop Organizers

Tom Naiman

Director, Curriculum Development & International
Education

Wildlife Conservation Society
2300 Southern Boulevard
Bronx, New York 10460, USA
Tel: 718 220 5100
Fax: 718 733 7748
Email: <tnmairnan@wcs.org>

Sally Walker

Founder/Hon. Director
Zoo Outreach Organisation
No.29/1, Bharathi Colony
P.Box 1683, Peelamedu
Coimbatore 641 004, Tamil Nadu
Tel: 0422-2561087, 2563159
Fax: 0422-2563269
Email: <zooreach@vsnl.net>

Pench Tiger Reserve

Participants List

Yateendra Kumar Agrawal
M.I.G. No. 04, Samta Narger Colony
Seoni 480 661, M.P.
Tel: 07692-220810 (O), 222265 (R)

Vandhana Bais
Govt. Girls Middle School
Dhanora
Sajpur, Seoni

Subodh Kumar Bajhal
Government High School
Lakhanwada, Post: Bamodi
Dist. Seoni 480 661, M.P.
Tel: 07692-223938 (R)

Lakharam Bopche
At Mohgaon
Post, Dhapara (Gangerua)
Tah - Barghat
Dist. Seoni 480 771, M.P.

Rajkumar Dehariya
Govt Boy's High. Sec. School
Dhuma-480888

Chandra Rekha Dhurwa
Govt. Hr. Sec.School
Dhanora
Sajpur, Seoni
Tel: 85440 (O)

Deepali W. Ekbote, Program Officer
Bharati Vidhyapeeth Institute of
Environment Education & Research
Bhartiuidyapeeth, Deemed University
Katraj-Dhankawadi, Pune 411 043
Tel: 020-24375684 (O)
Fax: 24345362

Vimlesh Kumar Goutam
Jawahar Mavodaya
Vidyalaya Kanhiwara
Dist. Seoni 480 990, M.P.
Tel: 07692-253204 (O), 253046 (R)

Fanindra Kumar Hardaha
Government High School
Kekda
Dist. Seoni 480 885, M.P.
Tel: 07691-294021 (O)

Deepak Kumar
Kendriya Vidhyalaya
Dunda
Seoni, MP
Tel: 07692-220330 (O), 221462 (R)

Meena Mahiya
Govt, Hr. Sec. School
Shartinagar,
Barghat-480661, M.P.
Tel: 250243 (O), 250240 (R)

Ramesh Prasad Malviya
Head Master, Govt, Middle School
Jeonara, Barghat
Seoni, M.P.

Santosh Kumar Nagoka
Government High School
Chinda, Tehsil: Keolari
Dist: Seoni 480 994, M.P.
Tel: 248243

Devanand Panchtilak (UDT)
T.W.H.S. School
Darasikala
Seoni, M.P.
Tel: 07695-244811 (R)

Narayan Prasad Rahangdale
Government Middle School
Kesla
Post-Kesla (Barghat)
Dist: Seoni, M.P.

Narayan Singh Rai
Govt. Middle. School
Kabeer ward
Seoni-480661, M.P.
Tel: 225868 (R)

R. C. Raikwar
Government (Aadim Jaati Kalyan)
Middle School
Sirmangni, Lakhnadon
Dist. Seoni, M.P.
Tel: 240941 (r)

Kapil Sahasrabuddhe
Project Associate
Centre for Environment Education
A-10, Garden Estate, 167/1 & 168/1
New D P Road
Opp. City International School, Aundh
Pune 411 007
Tel: 020-25887009
Email: ceemadhyapradesh@ceeindia.org

M. K. Sahu
Head Master/Master Trainers Eco-Club
Govt. Middle School
Seoni (Kabir Ward)
Barghat Maka (Near Water Tank) 480 661
Tel: 07692-220403 (O), 222370, 223947 (R)

G. L. Sahu
Block Education Officer Seoni
Seoni, M.P.
Tel: 220513 (O), 221101 (R)

Prem Chand Sanodiya
Village & Post - Jaam
The & Dist. Seoni 480 661

Manoj Kumar Sharma
Social Welfare High School
(Aadim Jati Kalyan Mat. School)
Shaliwada, M.P.
Tel: 240091

Ashwini R. Shitole
Program Officer
Bharati Vidhyapeeth Institute of
Environment Education & Research
Bhartiuidyapeeth, Deemed University
Katraj-Dhankawadi
Pune 411 043
Tel: 020-24375684 (O)

Tarachand Shivhare
Govt.Hr.Sec.School
Gorakhpur (Ghansore)
Seoni-480997, M.P.

D. K. Shrivastava
Boys Govt. High. Sec. School
Kahani-480 999, M.P.
Tel: 07693-283522 (O), 07690-240831 (R)
Email: Lakshanadon_Distl.seoni

Archana Shrivastava
Govt, Hr.Sec.School
Seoni, M.P.
Tel: 290477 (O), 223873 (R)

A. Shrivastava
Lecturer, G.G. Higher Secondary School
Lakhanadon
Seoni, M.P.
Tel: 2400086(O), 240433 (R)

I. K. Shrivastava
Govt. Girls High School
Keolari Dist.,
Seoni 480 661, M.P.
Tel: 23508 (O), 223297 (R)

Rajesh Shrivastava
Subhash Chandra Bose School
Seoni 480 661, M.P.
Tel: 223388

Vishakha Shroff
Program Officer, Bharati Vidhyapeeth
Institute of Environment Education &
Research, Bhartiuidyapeeth
Deemed University, Katraj-Dhankawadi
Pune 411 043
Tel: 020-24375684 (O), 09823031976 (M)

M. M. Srivatsava
Govt. Girls. Hr. Sec. School
Lakhnadon,
Seoni, M.P.
Tel: 240086 (O), 240433 (R)

Sanjay Tiwari
Samvidha Sikshak-2
Govt. Girls High School
Bhoma (Seoni) 480 992
Tel: 07692-238498 (O), 224704 (R)

Sharda Prasad Uikey
Vill.-Murzhui
P.O. Khamakia Bazar
Tish Ihansor Distt. Seoni 480 997
Tel: 214347

B. K. Upadhyay
Government Higher Secondary School
Kurai
Dist. Seoni, M.P.
Tel:07695-246408 (O), 250182, 250204(pp)

Intern candidates

Sonam Choden, Education Officer
Nature Conservation Division
Department of Forests
Ministry of Agriculture
Thimphu, Bhutan
Tel: 975 2 -325042/324131
Fax: 975 2 -325475
Email: <sonamchodn@yahoo.com>
<chodensom@hotmail.com>

Kundhavi Devi, Education Officer
Madras Crocodile Bank Trust
P.Box 4
Mamallapuram 603 104, T.N.
Tel: 04114-272447
Mobile: 98410-04426
Fax: 04114-242511
<mcbtindia@vsnl.net>

Mohammed Fazil
Education Officer
Kabul Municipality, Cultural Department
Kabul Zoo, Deh Mazang
Kabul, Afghanistan
Mobile: 0093-070286622
Email: <fazil_saidal@yahoo.com>

Amit Eknath Chavan, Project Coordinator
Nature Information Centre
Sanjay Gandhi National Park, Borivali East
Mumbai 66, Maharashtra
Tel: 022-3097 2620, Mobile: 098206 20148
Email: <gpvomit@yahoo.co.in>

B. A. Daniel
Scientist, Zoo Outreach Organisation
No.29/1 Bharathi Colony, P.Box 1683
Peelamedu
Coimbatore 641 004, T.N.
Tel: 0422-2561087
Fax: 0422-2563269
Email: <icinsa@vsnl.net>

Payal B. Molur
Go Wild Workshop
64, Bharathi Coloy, Peelamedu
Coimbatore 641 004, T.N.
Mobile: 0422-3331014
Email: <chirpyp@yahoo.com>

Mohan Kumar Moolepetlu
Mysore Amateur Naturalists (R.)
227, 3rd Main, A-1 Block, 3rd Stage,
Vijaya Nagar
Mysore 570 017, Karnataka
Tel: 0821-2412612 (O), 2567970 (R)
Email: <mohana_man@yahoo.co.uk>

B. G. Mridula
Bapu Nivas, 132 5th Main
Prashanthnagar
Bangalore 560 079, Karnataka
Tel: 080-23284741, Mobile: 98800-93292
Email: <mridula.bg@indiatimes.com>

J. Murali, Education Officer
World Wide Fund for Nature-India
Tamil Nadu State Office
No.297, TTK Road, Alwarpet
Chennai 600 018, T.N.
Tel: 044-24994827, 24997107
Mobile: 09841510305
Email: <wwftnso@sify.com>,
<wwftnso@touchtelindia.net>,
<j_murali@yahoo.com>

Anand Pendharkar
Director, SPROUTS
68/4, Tarun Bharat Society
Chakala, Sahar Road, Andheri (East)
Mumbai 400 099, MS
Tel: 022-28368647
Mobile: 9820140254
Email: <sprouts@indbazaar.com>
<appcoral@hotmail.com>

P. Gowri Shankar
Research Associate, Pilikula Biological Park
Pilikula Nisarga Dhama
Moodushedde post, Vamanjoor
Mangalore 575028, Karnataka
Tel: 0824-2263300 (Office)
Mobile: 098459-69095
Email: <pogirishankar@rediffmail.com>

Geeta Shrestha
Executive Chairperson, NATURE
138, Banijya Marga, Bijuli Bazar
New Baneshwor, P.Box 20543
Kathmandu, Nepal
Tel: 977-1-4781136, Mobile: 9851056325
Fax: 977-1-470235
Email: <rabigeeta@hotmail.com>

Melvin Gumal
Director of Malaysia Program
Wildlife Conservation Society
7 Jalan Ridgeway, Kuching, 93200
Sarawak, Malaysia
Tel: 60 82 -279050
Fax: 60 82 -252799
Email: <mgumal@wcs.org>,
<melter_my@yahoo.com>

Musnarizal Abd. Manap (DPA.ITM)
Educational Officer, Taiping Zoo
Zoo Taiping & Night Safari, Taiping
Municipal Council, Jalan Taman Tasik
Taiping, 34000 Taiping
Tel: 605-8086577 (O), 605-8057450 (r)
Fax: 605-8066025
Email: <zooed@zootaiping.gov.my>

R. Marimuthu
Pavattakudi Post, Kollumangudi Via
Mayiladuthurai 609 403 Tamil Nadu
Tel: 04366-233831

Email: <marimuthu_ind@yahoo.com>

Ugyen Tshering, Education Officer
Environmental Education Focul Person
Bumdeling Wildlife Sanctuary, NCD
Trashiyangtse, Bhutan
Tel: 975 4 -781155
Fax: 975 4 -781161
Email: <u_tshering@druknet.bt>

Organisers

N. S. Dongariyal
Field Director, Pench National Park
Seoni, M.P.
Tel: 0091-7692-223794, Cell: 2310735

Tom Naiman
Director, Curriculum Development &
International Education
Wildlife Conservation Society
2300 Southern Boulevard
Bronx, New York 10460, USA
Tel: 718 220 5100
Fax: 718 733 7748
Email: <tnmairman@wcs.org>

B. M.S. Rathore
Member Secretary, M.P. Biodiversity Board
Forest Department of Madhya Pradesh
Van Bhavan, 1st Floor, Tulsinagar
Bhopal 462 003, M.P.
Tel: 0755 2554549, 094251 74602
Email: <bms_r@yahoo.com>
<cfseoni@sancharnet.in>
<mp_biodiversityboard@yahoo.co.in>

S. Sen
Deputy Director, Pench National Park
Seoni, M.P.
Tel: 0091-7692-223794

Sally Walker
Founder/Hon. Director
Zoo Outreach Organisation
No.29/1, Bharathi Colony,
P.Box 1683, Peelamedu
Coimbatore 641 004, Tamil Nadu
Tel: 0422-2561087, 2563159
Fax: 0422-2563269
Email: <zooreach@vsnl.net>

Agenda

Wednesday – 23 June 2004	
09:00 – 10:00	Registration
10:00- 10:45	Inaugural function
10:45 – 11:00	Tea
11:00 – 11.45	Introduction of participants
11:45 – 12:00	Workshop themes & Materials; Schedule
12:00 – 12:45	Evaluation activities
12:45 – 1:30	Guest speaker : Mr. B.M.S Rathore
1:30- 2:15	Lunch
2:15 – 3:15	Teachers for Tigers, Unit 1 – Mini Drama preparation
3:15 – 3:45	Mini drama performance
3:45 – 4:00	Tea
4:00 – 5:00	Teachers for Tigers, Unit 1 – Tiger Ranges: Yesterday, Today and Tomorrow
5:00 – 6:00	About the Park – Guest Speaker Dr N. S. Dongriyal
7:30....	Social Activity...
Thursday – 24 June 2004	
09:00 – 10:30	Teachers for Tigers, Unit 1 – From Big cats to Little cats
10:30 – 11:30	Teachers for Tigers, Unit 1 – Tiger Time Line
11:30 – 11:45	Tea
11:45 – 12:45	Teachers for Tigers, Unit 2 – Tigers In culture
12:45 – 1:30	Guest speaker: Mr S. Sen – Man animal Conflict
1:30 – 2:15	Lunch
2:15 – 3:45	Teachers for Tigers, Unit 2 – Global perspectives Role Play
	Participants about their country
3:45 – 4:00	Tea
	Observation Game/Spots & Stripes/Colour Challenges
4:00 – 6:00	Trip around the Tiger Reserve
6:00 – 6:30	Project Tiger map game
Friday – 25 June 2004	
09:00 – 10:00	Teachers for Tigers, Unit 3 – Pugmarks, Camera Trap, radio collaring
10:00 – 10:30	Food Web Activity
10:30 – 11:00	Feeding Ecology
11:00 – 11:15	Tea
11:15 – 11:45	Resource Roundup
11:45 – 12:30	Teachers for Tigers, Unit 3 – Nagarahole Citizen's Debate
12:30 – 1:15	Lunch
1:15 – 2:15	Teachers for Tigers, Unit 4 –International Tiger Conservation Conference
2:15– 3:00	Evaluation
3:00 – 3:45	Personal commitments. Closing Statements/Presentation of certificates
3:45...	Tea Break and leaving

DAY ONE – 23rd June 2004

Inaugural

The President at the inaugural was Mr. Faiz Ahmed Kidwai, District Collector Seoni. The Chief Guest was Dr. V. P. Pandey, Chief Conservator of Forests. The special guest was Mr. D. Srinivasa Rao, Superintendent of Police, Seoni. The other dignitaries on the dais were Dr. N.S. Dongriyal, Field Director, Pench Tiger Reserve, Mr. B.M.S. Rathore, Member Secretary, Madhya Pradesh Biodiversity Board, Mr. Tom Naiman, Director Curriculum Development and International Education, Wildlife Conservation Society, USA and Ms. Sally Walker, Founder Secretary Zoo Outreach Organisation, Coimbatore. Teachers for Tigers kits were gifted to the dignitaries. Ms. Mridula welcomed the gathering and introduced the dignitaries on the dais, the partners of the workshop and the funding agencies, to the gathering.

Mrs. Payal Molur carried out *Rakshabandhan*, the Rakhi event involving all the dignitaries and the audience. Everybody tied rakhi on the neighbours' hands and committed them selves towards nature conservation.

Mr. Tom Naiman took an overview of the workshop. Mr. Tom mentioned great reasons such as ethical, ecological, cultural, historical, and economical, to conserve the biodiversity. Mr. Srinivasa Rao asked teachers to take active participation in the workshop so as to propagate the mission of the nature conservation. Mr. Faiz Ahmed Kidwai in the presidential talk refreshed the teachers by saying that they are entrusted with the responsibilities of the eco clubs, and their clubs are not going to contribute to the conservation unless they take active participation in the act of nature education. Mr. Kidwai encouraged the teachers to initiate Biodiversity Conservation Awareness Programme by offering support, funds and facilities from the Madhya Pradesh Government.

Mr. Pandey, the Chief Guest, mentioned about the Earth Summit-conventions such as Conservation of Biodiversity and Combating desertification for which India is a signatory. He also mentioned the *Panch J abhiyan: Jal, Jan, Jamin, Jungle, Janvar* (Five J campaign– Water, People, Land, Jungle and Animals) and asked teachers to make use of the workshop in executing the campaign.

Ms. Sally Walker mentioned that the reasons of conducting the workshops are mainly to disseminate different tools and techniques of teaching through using the tiger toolkit. Ms. Sally appreciated the Teachers for Tigers manual and added that the manual is a fantastic series of steps leading towards action. Ms. Sally happily presented the Hindi version of the manual and requested the participants to report any shortcomings or mistakes in the same.

Dr. N.S. Dongriyal appealed to the participants to understand the importance of human beings and their role in the biodiversity conservation. He informed about the biodiversity of the Pench Tiger Reserve. He delivered vote of thanks to all the dignitaries, participants and media people.

Tea:

After the inaugural the participants and dignitaries were invited for tea.

Session 1: Workshop Themes and materials, Schedule

Facilitator: Mr. Tom Naiman.

Translators: Mr. Anand & Ms. Mridula

Mr. Tom greeted the participants and asked to relax by 'Tiger Stretch'. He introduced the tiger manual and other material. He shared his experience of using the manual with different audiences such as teachers, ZOO educators, children, and students and mentioned that the manual helped in implementing activities and develop appreciation for tigers and eventually for nature. He requested participants to be punctual throughout the workshop so as to ensure maximum utilization of the 3 days and avoid cut shorting the activities.

Session 2: Assessment strategies

Facilitator: Mr. Anand

The concept of the evaluation was introduced to the participants. They were explained the importance of assessment of knowledge base of the target audience before and after any event. This activity helps in knowing the change or improvement in the attitude and approach of the participants due to workshop and in turn it indicates the success of the material, tools and the educators' skills and efforts. Anand and Tom demonstrated the concept maps on 'Food' and 'India', respectively and then each of the participants did a concept map on 'Tiger'.

Session 3: A Talk on Biodiversity Conservation

Guest Speaker: Mr. BMS Rathore, Secretary, MP Biodiversity Board.

Ms. Sally Walker introduced Mr. BMS Rathore. Mr. Rathore has been actively involved in the conservation through Joint Forest Management. He was awarded the best Forest Officer award. He expressed that the formal education may improve the students' intellect and knowledge but it may not sensitize the pupil towards conservation. Therefore there is need to combine our brains and hearts. In order to initiate a discussion on the biodiversity of the Pench Tiger Reserve Mr. Rathore circulated a plant, which was identified by Mr. Mohan, an intern, as *Boehreria defusa* (Punarnava), which is a medicinal plant. Its extract helps in cell generation.

Mr. Rathore took this opportunity to instill the scientific enquiry among the participants. He suggested maintaining a School Biodiversity Register (SBR) so as to document the biodiversity in and around the school premises. The participants and the organizers appreciated the concept very much. The SBRs can help the village Panchayat and Government agencies at different strata to plan for the *Panch 'J' abhiyan* i.e. Five 'J' campaign and make it a success. In response Mr. Rathore informed the participants that India is the first signatory of the Convention on Biodiversity (CBD) and recently India has principally approved the National Biodiversity Act (2003), which states that each state and province should have a state biodiversity board and facilitate: 1) Conservation, 2) Sustainable use of natural resources 3) equitable sharing of the biodiversity. He was proud to mention that in the state of MP the board had been launched even before the Act. The Board will soon be a statutory body and he felt that conservation has to be mainstreamed through the Agriculture, Forestry, Animal Husbandry etc. also use the existing media so as to reach to mass.

Response by audience:

Questions to Mr. Rathore by:

1. Mr. Murali, WWF-Chennai requested Mr. Rathore to explain about objectives of the MP Biodiversity Board.
2. Mr. Tom asked for the role of the educators in mainstreaming the conservation.

Answer: A school teacher may perceive the issue of conservation in terms of environmental values, global warming, pollution etc. whereas biodiversity for a farmer means different species of cultivable grains. Therefore teachers should follow their own perception and act accordingly so as to sensitize their students.

3. Dr. Srivastava, a teacher, asked to elaborate on the farmer's perception of biodiversity. **Answer:** Mr. Rajesh Tiwari had organised a *Mini Yatra* (campaign) in 8-10 villages, which revealed that the farmers could differentiate about 40 different varieties of paddy and fishermen could identify about 40-50 different varieties of fish in the Mehta lake.

4. Ms. Sonam Choden, Bhutan, requested for a format of the SBR.

Answer: A promise to share it once its ready.

5. Ms. Sally Walker, ZOO enquired about the scientific perfection of the data collected by Mr. Tiwari. She advised to have the varieties identified by the taxonomists. She felt that the SBR programme could produce some bare foot taxonomists.

Lunch:

The participants were invited for lunch.

Group Photograph:

After lunch all the invitees, participants, interns, trainers and staff were gathered for a group photograph.

Session 4: Assessment strategies**Facilitator: Mr. Anand**

The participants were explained about other assessment strategies such as the Story writing, Attitudinal survey, Content survey – Pictorial and Content survey – Written. The session included demonstration of the techniques.

Session 5: Introduction and Mini Dramas**Facilitator: Mrs. Payal**

Four working groups consisting about 10 individuals in each were made. Within the working groups the participants were paired so as to have the introduction round. The pairs were asked to interact with each other for 5 minutes and know the name, organization, education, bit of personal information and favourite animal of the partner. The working groups were explained about the mini dramas and the strengths of such tools. Ms. Payal emphasized on the fact that since the dramas have animals as characters it is free from all lingual barriers. The topics for mini dramas were distributed among the groups and were given 30 minutes for preparation. They were strictly instructed not to pluck anything from trees but certainly can ask for the material such as paper, sketch pens, adhesive tape etc; also to make use of the masks provided in the kits. The interns were allocated the groups and were asked to observe the preparations. All the participants introduced their partners and also performed the mini dramas in the following order: Poaching, Hunting, Courtship and Parental Care.

Reactions: The participants expressed that they were conducting mini dramas but enacting animals and learning about their life history is a very good and new experience. They appreciated and accepted to be a very good tool of education.

Session 6: A Nature Trail in the Pench Tiger Reserve**Resource Person: Dr. Dongriyal, Field Director, Pench Tiger Reserve**

Dr. Dongriyal introduced the Reserve by telling about the its area (411 sq. km.- Sanctuary and National Park + 757 sq. km.- buffer area = 1157sq.km.), its location (on Westside to the National Highway), its undulating topography (Karmajhiri is a plateau rising up to 500m and District Seoni is on a hill at an altitude of 600 m. below which is a Kurai Ghat), its rainfall (1200-1600 mm), its forest type (dry deciduous with patches of moist deciduous forest) and logic behind the name of the reserve. i.e. Pench River. He told the participants that the park was initially looked at as revenue-generating source therefore the primary forest was cleared and teak was planted. He also informed that in 1992 a dam was constructed on the Pench River in Maharashtra, because of which about 52 sq. km. area of the park has turned into submergence area. Two villages present in the park were relocated once it was declared as a Tiger Reserve. These areas have become grasslands, which benefit the herbivores and in turn tigers.

The participants were then taken into a dry stream where Dr. Dongriyal explained the soil types. The origin being volcanic eruptions, the rock is igneous. But he was sad to say that such soil has minimum mineral value, high percolation rate and therefore the Forest Department started maintaining some water holes inside the park for the wild animals. The trail was very much informative and thrilling for the participants. Thanks to Dr. Dongriyal's active and enthusiastic guidance. Under his guidance the participants observed many plants the details of which are attached as Appendix 1.

Session 7: A Meeting**Instructor: Mr. Tom Naiman****Attendees: All Interns**

Mr. Tom allocated and discussed sessions with the interns to be conducted on the second day of the workshop.

Session 8: Wildlife Jeopardy**Quiz Master: Mr. Tom Naiman.****Translator: Mr. Anand**

The participants assembled at 1930 hrs. Mr. Tom Naiman introduced Wildlife Jeopardy, which was enjoyed by the participants. The categories for the marks were, Animals of the World, Protected Areas of India, Animals in Culture, Protect our Planet! and How Well Were You Listening?

Announcement:

Dr. B.A. Daniel, ZOO, informed all participants that on the second day, breakfast would be served at 0800 hrs and workshop would commence at 0900 hrs.

DAY TWO: 24th June 2004**Breakfast and Assembly:**

The breakfast was served at 0800 hrs. The participants assembled at 0900 hrs. at the venue.

Session 1: Tiger Ranges**Facilitator: Ms. Mridula**

Each of the groups was given a set of 12 maps and was asked to assemble maps for 1) Major Habitats of Asia, 2) Historic Tiger Ranges and 3) Current Tiger Ranges. The groups were asked to list out names of the countries that had tigers in the past and present. Ms. Mridula discussed the different reasons of habitat shrinkage, the depletion of tiger population and extinction of three out of eight subspecies of tiger and also the present population of the existing 5 subspecies.

Response by audience:

The participants expressed that they could conduct this activity during the geography sessions in the schools.

Session 2: From Little cats to Big Cats**Facilitator: Mr. Anand and Mr. Amit.****Assisted by: Other Interns**

The activity was conducted in the ground outside. Body size and Weight, Camouflage and Communication activities were discussed and explained to the participants. However, Jumping and Speed (Gowrishankar), Climbing and Territoriality (Mohan), Eating (Geeta), Tail (Murali) activities were demonstrated. Each of the groups performed the activities in turn.

Response by participants:

The participants enjoyed all the activities and experienced themselves how most of the tiger life history could be taught within 1 hour through fun and games.

Session 3: Tiger Timeline**Facilitator: Mrs. Payal**

Each of the participants and interns were given an event significant in the history of relation between tiger and human from 1700s to 2050. Also they were given important events in the history of the Pench

Tiger Reserve. The participants explained the allocated event with the help of the posters prepared by them. The posters were pasted on the wall of the passage so as to make an exhibition on Tiger Timeline.

Session 4: Tiger in culture

Facilitator: Mr. Tom Naiman.

Translator: Mr. Amit Chavan

Mr. Tom described different perspectives about tiger throughout the globe. The groups were asked to make a list of advertisements, sports, films, songs, literature, plant or animal species and other things, which depicted tiger. The participants were asked to present the lists after lunch.

Lunch:

The participants were asked to have lunch and rejoin at 0215 hrs.

Session 5: Tiger in culture

Facilitator: Mr. Tom Naiman.

Translator: Mr. Amit Chavan

The lists of all the groups were compiled and this was followed by a discussion on how tiger has been important in our culture in the past, present and future. Mr. Amit shared his experience about tiger time line activity, which he had experimented in one of the nature camps. An 8-year-old child had expressed his feelings on a poster, which when exhibited for parents, touched his mother and she could not control crying.

Mr. Tom Naiman, WCS, initiated a discussion on the usage of the workshop and the manual in the curriculum. He wanted to assess the niche of the activities suggested in the manual in the day-to-day teaching in the schools.

Responses by audience:

1. Mr. Lakha Ram Bopche, a participant, opined that the activities were very interesting and would create ripple effect and students would follow some of the activities in their regular playing and games. The schools have National Green Clubs (NGC), National Service Scheme (NSS) in which they have environmental component where they could find slots for nature education activities. Another participant expressed that anything presented to the students in the right manner will have a lot of positive impact. He admitted that he started learning the basics through this programme and he will continue his learning and teaching.
2. Ms. Ashwini, Project Coordinator, Bharati Vidyapeeth Institute of Environmental Education and Research told the group that she was planning to conduct an education programme into the Kanha Tiger Reserve and Bandhavagarh Tiger Reserve. She felt that the workshop was very useful to learn new techniques, which she decided to use in her future programmes.
3. Ms. Sally tried to assess the willingness of teachers to conduct such programmes in their areas. Mr. Pandey, Block Development Officer, replied that he would be happy to take up this programme through the forum of the teachers, which is already established and that the teachers meet on the first Thursday of every month.
4. Mr. Tom involved Mr. Sen, Deputy Director, Pench TR, by asking about the possibility to arrange visits of students to the Pench Tiger Reserve. Teachers came out with the reasons such as shortage of funds, less priority level, for not organizing such visits. In response to this Mr. Sen positively responded and offered free transport by their mini buses for a select no. of students.

Session 6: A Slideshow on Biodiversity of Pench Tiger Reserve.

Resource Persons: Mr. Sen, Deputy Director, Pench Tiger Reserve.

The slide show gave an entire vision of the reserve in terms of its location, forest types and faunal diversity with special emphasis on the mammals of the forest. The participants enjoyed the show, which prepared a background for the safari, which followed the talk.

Session 7: Vehicle safari through the Pench Tiger Reserve.

Resource Persons: Dr. Dongriyal and Mr. Sen

The participants traveled in 2 Mini-buses and 2 Jeeps. It was a great experience to watch wildlife the list of which is attached herewith as Appendix 2. The ride became more thrilling when one of the groups could watch a hunting sequence wherein a pack of Dhole killed a fawn of Spotted Deer. The groups were also shown the backwaters of the Dam constructed in Maharashtra on Pench River.

Biodiversity Dinner: Organized by Mr. Dharmendra and volunteers from the Biodiversity Board.

Mr. Dharmendra had arranged a special dinner party wherein the participants were served at least 25 dishes, specially prepared in manner of the *Gonds*, the tribal. The delicacies represented the local agro-diversity. The participants were served in leaf plates and earthen pots. The volunteers were dressed in traditional dresses of the tribal. The party was made memorable by folk music and plenty of dishes. This is a commendable initiative by the Biodiversity Board so as to popularize the conservation of tribal, tribal knowledge and their traditions among the visitors.

Responses by participants:

The teachers, interns, Resource persons enjoyed the dinner. Some of the teachers also enjoyed dancing to the tribal tunes.

Announcement:

Dr. Daniel announced that on the third day the breakfast would be served at 0730 hrs. and workshop will commence at 0800 hrs, in order to cover all the remaining sessions.

DAY THREE: 25th June 2004

Breakfast and Assembly:

The breakfast was served at 0730 hrs. The participants assembled at 0800hrs. at the venue.

Session 1: Tiger Conservation in India (Project Tiger Reserves)

Facilitator: Mrs. Payal

Maps marked with the locations of the Project Tiger Reserves (PTRs) in India were distributed. Participants were asked to complete the map of the PTRs by referring table on pg. No. 147 of the manual and match the names and locations. The participants learnt about the 27 PTRs in India.

Session 2: Global Perspectives Role Play.

Facilitator: Mr. Anand

The participants were divided into 6 groups. They were asked to take up the following roles: Advertising executives, Biologists, Farmers, Reporters, Songwriters and Politicians. Each group presented/enacted their roles in a commendable manner.

Session 3: Assessment strategies and Pledge

Facilitator: Mr. Anand and Mrs. Payal

As a part of the exercise, all the participants were asked to make new concept maps on 'Tiger' and also fill up the evaluation forms. Each participant was asked to prepare a pledge for themselves to conserve tiger and biodiversity.

Closing ceremony:

Master of Ceremony: Dr. B.A. Daniel

The dignitaries at the dais were Dr. V. P. Pandey, Chief Conservator of Forests, Seoni, Mrs. G. Pandey, Conservator of Forests, Mr. S. N. Choudhary, Deputy Project Officer, Education Department, Seoni, Mr. Tom Naiman, WCS and Ms. Sally Walker, ZOO. The Chief guest Dr. Pandey, CCF and Mr. Tom handed over the certificates to the successful participants. In order to initiate propagation of education and motivate teachers they were gifted a packet of 50 toolkits consisting stickers, masks, placards etc. Among the participants some were given the opportunity to express their thoughts about the workshop. As a representative of the teachers two teachers took the pledge in front of the audience.

Teachers' feedback:

1. Mr. Deepak Kumar appreciated the workshop by giving full credit of the positive change in his attitude towards tiger.
2. Mr. Sanjay Tiwari expressed that the workshop was very informative and this will benefit the students.

Mr. Sen, Deputy Director Pench Tiger Reserve, in his speech said that he was thrilled to host the group as this was first group to come to the reserve in such a large strength. He added that he was amazed by the enthusiasm of the teachers.

Mr. Tom Naiman, WCS happily expressed that once again a series of three Teachers for Tigers workshop has begun in the Land of Tiger and one of them has been successfully completed at Pench. On behalf of the US Fish and Wildlife Service, Starr Foundation and WCS, he expressed gratitude to the teachers, educators, principals, interns for successful participation; Officials of the Pench Tiger Reserve for remarkable hospitality and MP Biodiversity Board for helping in organizing the workshop. He mentioned that Ms. Sally Walker, ZOO has been an incredible force in conducting the programmes and he understood that it was not possible without the entire ZOO team.

Ms. Sally Walker, ZOO, motivated teachers by telling her own story how she was touched at the heart by a Tiger cub sitting in her lap, and that she decided to devote her life to the ZOO education and nature conservation. In her 30 years of working in this field she realized that the animals have pulling powers. She has been passing on the enthusiasm to people and requested the teachers to pass on their enthusiasm to the society and motivate people towards nature conservation. She thanked all the participants to be very much participative, attentive and not complaining about discomfort if any. She promised them that if they write to her about the concerns or a request letter for more packets then she'll definitely help them out.

Dr. Gopa Pandey, Conservator of Forests, thanked all the participants and organizers for coming to the Tiger state and conduct the workshop on tigers.

Dr. V.P. Pandey, Chief Conservator of Forests, said that he was delighted to see the success of the workshop. He reminded the teachers by saying that Ms. Sally expects the teachers to be catalysts and disseminate the knowledge gained in the workshop. Mr. Pandey said that he is willing to organize one more seminar in the month of July in collaboration with the Education Department.

Mr. Anand delivered the vote of thanks to Dr. V.P. Pandey, Mrs. Pandey, Pench Tiger Reserve especially Dr. Dongriyal, Mr. Sen, MP Biodiversity Board, Mr. BMS Rathore, Education Department, Seoni, USFWS, TRCF, Tom, WCS, Sally, entire ZOO staff. He also thanked Mr. Ajabsingh the support staff, Pench Tiger Reserve.

Appendix 1

List of plants seen on nature trail

1. Arjun: *Terminalia arjuna*: Wood is very hard, indicator of water, prevents soil erosion, bark extract used in treatment of heart diseases. The fruit is Pentanum meaning having 5 wings, which help in dispersal through water.
2. Fig variety: *Ficus recemosa*: Prevents soil erosion, roots help in moisture conservation.
3. Katai: *Arjemon mexicana*: Yellow flowers, seeds mixed with mustard seeds and used in treatment of dropsy and root extract in diabetes treatment.
4. Papadi/ Kavatibael: *Ventiliago madraspatna*
5. *Cassia Saima*
6. Kasai: *Bridilla retusa*
7. Teak: *Tectona grandis*
8. Fig variety: *Ficus hispida*
9. Bael: *Aegel marmelos*
10. Anatmul: *Hemidesmus indicus*
11. Jamun: *Schizigium cumini*
12. Aain: *Terminalia tomentosa*: Contains argilic acid, used as timber and in boat and sleeper construction.
13. Amaltas: *Cassia fistula*
14. Indian eboni: Tendu: *Diospyrus melanoxylon*: Has black wood used for golf balls, Leaves called as Tendupatta used for bidis, Fruits are edible.
15. Lendia: *Lagerstromia parviflora*

Appendix 2

List of animals seen on Safari

Spotted Deer, Sambar Deer, Blue bull, Hanuman Langur, Rhesus Macaque, Indian Gaur, Squirrels, Flying Fox, Indian Pippistrelle, Jackal, Wild dog, Indian Roller, Tailor Bird, Tree Pie, Racket Tailed Drongo, Black Drongo, Golden Oriole, Pond Heron, Cattle Egret, Little Egret, Little cormorant, Lesser Whistling Teal, White necked Stork, Red Wattled Lapwing, Night Jar, Barred Jungle Owlet, Cicada, Grasshopper, Preying Mantis

Teachers for Tigers

Minutes on

Workshop at

Van Vihar National Park

Bhopal, Madhya Pradesh, India

28 – 30 June 2004

By

R. Marimuthu, Gigi Joseph and M. Mohan Kumar

Van Vihar National Park

Participants List

- Amol Adholiya
U.D.T., G.N.H.S.S.
Arera Colony, Bhopal, M.P.
Tel: 2468042 (O), 98262 24214 (Mobile)
- Tasnim Anwar
Asstt. Teacher, Govt. M/S Rashidia
Berkheri
Bhopal 462 001, M.P.
Tel: 2537480 (R)
- Neetal Bahel
Govt. Secondary High School
Pardiya, Rasayan Road
Bhopal, M.P.
Tel: 2681036 (S)
- Julie A. D'Souza'
TGT (SS), Jawahar Lal Nehru School
Habibganj
Bhopal 462 024, M.P.
Tel: 2506733 (S), 2628095 (R)
- Vandana Dhupar
Biology Teacher (Environment Co-ordinator), Delhi Public School
Near Neelbad Crossing, Bhadbhada Road
Bhopal, M.P.
Tel: 2696969 (S), 2551575 (R), 9893055157 (Mobile)
- Jayalakshmi Iyer
Teacher, Delhi Public School
Near Neelbad Crossing
Bhadbhada Road
Bhopal, M.P.
Tel: 2696969 (S), 2559052 (R)
- Qamar Jahorn
Lecturer, Govt. Higher Sec. School
Nishat pura
Bhopal, M.P.
Tel: 2731745, 3127486 or 2542201 (R)
- Samina Khan
Asstt. Teacher, Govt. Middle School
Habibganj
Bhopal, M.P.
Tel: 2533386 (R)
- Chitra Khanna, Project Coordinator
Towards Action and Learning
E4/9 Area Colony
Bhopal, M.P.
Tel: 2422920 (O), 2467726 (R)
- Anjali Khanna
T.G.T. (SS), Jawahar Lal Nehru School
Habibganj
Bhopal 462 024, M.P.
Tel: 2506733 (S), 5273932 (R)
- Rajesh Malhotra
Lecturer, Govt. H.S. School
Kotra Sultanabad
Bhopal, M.P.
Tel: 2770501 (S), 2671321 (R)
- Rama Malvivy
Asst. Teacher, Govt. Middle School
Barkheda Pagni, Bhel
Bhopal, M.P.
- Poonam Prakash
Lecturer, Govt. Girl's Higher Sec. School
Jehangirabad
Bhopal, M.P.
Tel: 2764360 (S), 2480597 (R)
- Janki Prasad
Asstt. Teacher, Govt. Middle School
Samadha Jungle
Bhopal, M.P.
Tel: 52252781
- K. K. Radhakrishnan
Govt. Girl's Higher Sec. School
Berasia
Bhopal, M.P.
Tel: 2684163

Sujata Saxena
U.D.T., Sarojani Naidu H.S.S.
Shiwagi Nagar
Bhopal, M.P.
Tel: 2554424 (S), 2462984 (R)

Vijaya Shrivastav
Govt. Boys Higher Sec. School
Bhopal, M.P.
Tel: 2741961 (S), 2745832 (R)

Ram Kishore Shrivastav
Asstt. Teacher, Govt. Middle School
Raj Bhawan
Bhopal, M.P.
Tel: 2770662 (R)

Abha Shrivastava
Asst. Teacher, M.L.B.G.H.S.S. Berkhera,
BHEL, Bhopal, M.P.
Tel : 2503050 (S), 211265 (R)

Meena Si Sodiya
Asst. Teacher, Govt. H.S.M.L.B., Berkhera,
Bhopal, M.P.
Tel: 2503050 (S)

Khalida Sultana
Asst. Teacher,
Govt. Girls Higher Secondary School,
Berkheri,
Bhopal, M.P.
Tel: 2768069 (S), 2752494 (R)

Shachi Sundaresan
Govt. Pri. School Chaveni
Shahpura
Bhopal, M.P.
Tel: 2414274 (R)

Hari Charan Thakur
Asstt. Teacher, M. S. Bagroda
30 Azad Nagar, By Pass Road
Post Piplani
Bhopal 462 021, M.P.
Tel: 2612841

Diksha Upadhyay, U.D.T.
Govt. Boys Higher Sec. School
Bhopal, M.P.
Tel: 2741961 (S), 2577717 (R)

Deepak Upadhyaya
Lecturer, Govt. M.G.H.S.S., Barkhera,
Bhopal, M.P.
Tel : 2620767 (S), 2588179 (R)

Rubeena Usman
UDT, Govt. High Sec. School
Nishatpura
Bhopal, M.P.
Tel: 2731745 (S), 2533127 (R)

Arun Kumar Vishwakarma
Lecturer, Govt. Mahatma Gandhi Higher
Secondary School, BHEL, Bhopal, M.P.
Tel: 2620767 (S), 2584002 (R)

Interns

Amit Eknath Chavan, Project Coordinator
Nature Information Centre
Sanjay Gandhi National Park
Borivali East
Mumbai 66, Maharashtra
Tel: 022-3097 2620
Mobile: 098206 20148
Email: <gpvमित@yahoo.co.in>

Sonam Choden, Education Officer
Nature Conservation Division
Department of Forests
Ministry of Agriculture
Thimphu, Bhutan
Tel: 975 2 -325042/324131
Fax: 975 2 -325475
Email: <sonamchodn@yahoo.com>
<chodensom@hotmail.com>

B. A. Daniel
Scientist, Zoo Outreach Organisation
No.29/1 Bharathi Colony, P.Box 1683
Peelamedu
Coimbatore 641 004, T.N.
Tel: 0422-2561087
Fax: 0422-2563269
Email: <icinsa@vsnl.net>

Kundhavi Devi, Education Officer
Madras Crocodile Bank Trust
P.Box 4
Mamallapuram 603 104, T.N.

Tel: 04114-272447, Mobile: 98410-04426
Fax: 04114-242511
Email: <mcbtindia@vsnl.net>

Mohammed Fazil, Education Officer
Kabul Municipality, Cultural Department
Kabul Zoo, Deh Mazang
Kabul, Afghanistan
Mobile: 0093-070286622
Email: <fazil_saidal@yahoo.com>

Melvin Gumal,
Director of Malaysia Program
Wildlife Conservation Society
7 Jalan Ridgeway, Kuching, 93200
Sarawak, Malaysia
Tel: 60 82 -279050
Fax: 60 82 -252799
Email: <mgumal@wcs.org>,
<melter_my@yahoo.com>

Gigi K. Joseph,
Extention Education Officer
Periyar Tiger Reserve
Thekkady 685 536, Kerala
Tel: 04869-222027
Mobile: 09447432891
Fax: 04869-223750
Email: <gigiperiyar@yahoo.co.in>

Musnarizal Abd. Manap (DPA.ITM)
Educational Officer, Taiping Zoo
Zoo Taiping & Night Safari, Taiping
Municipal Council, Jalan Taman Tasik
Taiping, 34000 Taiping
Tel: 605-8086577 (O), 605-8057450 (r)
Fax: 605-8066025
Email: <zooed@zootaiping.gov.my>

R. Marimuthu
Pavattakudi Post, Kollumangudi Via
Mayiladuthurai 609 403 Tamil Nadu
Tel: 04366-233831
Email: <marimuthu_ind@yahoo.com>

Payal B. Molur
Go Wild Workshop
64, Bharathi Coloy, Peelamedu
Coimbatore 641 004, T.N.
Mobile: 0422-3331014
Email: <chirpyp@yahoo.com>

Mohan Kumar Moolepetlu
Mysore Amateur Naturalists (R.)
227, 3rd Main, A-1 Block, 3rd Stage, Vijaya
Nagar
Mysore 570 017, Karnataka
Tel: 0821-2412612 (O), 2567970 (R)
Email: <mohana_man@yahoo.co.uk>

B. G. Mridula
Bapu Nivas, 132 5th Main
Prashanthnagar
Bangalore 560 079, Karnataka
Tel: 080-23284741
Mobile: 98800-93292
Email: <mridula.bg@indiatimes.com>

J. Murali, Education Officer
World Wide Fund for Nature-India
Tamil Nadu State Office
No.297, TTK Road, Alwarpet
Chennai 600 018, T.N.
Tel: 044-24994827, 24997107
Mobile: 09841510305
Email: <wwftnso@sify.com>,
<wwftnso@touchtelindia.net>,
<j_murali@yahoo.com>

Anand Pendharkar
Director, SPROUTS
68/4, Tarun Bharat Society
Chakala, Sahar Road, Andheri (East)
Mumbai 400 099, MS
Tel: 022-28368647
Mobile: 9820140254
Email: <sprouts@indbazaar.com>,
<appcoral@hotmail.com>

P. Gowri Shankar
Research Associate, Pilikula Biological Park
Pilikula Nisarga Dhama
Moodushedde post, Vamanjoor
Mangalore 575028, Karnataka
Tel: 0824-2263300 (Office)
Mobile: 098459-69095
Email: <pogirishankar@rediffmail.com>

Geeta Shrestha
Executive Chairperson, NATURE
138, Banijya Marga, Bijuli Bazar
New Baneshwor, P.Box 20543
Kathmandu, Nepal

Tel: 977-1-4781136, Mobile: 9851056325
Fax: 977-1-470235
Email: <rabigeeta@hotmail.com>

Ugyen Tshering
Education Officer
Environmental Education Focul Person
Bumdeling Wildlife Sanctuary, NCD
Trashiyangtse, Bhutan
Tel: 975 4 -781155
Fax: 975 4 -781161
Email: <u_tshering@druknet.bt>

Organisers

L. K. Choudhary, IFS
Conservator of Forests
Director, Van Vihar National Park
P.O. Box 348, C. Tatyia Tope Nagar
Bhopal, M.P.
Tel/Fax: 0755-2770774 (O), 2480564 (R)
Email: <lalankc@rediffmail.com>, <dirvvp@sancharnet.in>

Saba Hussain
MP Biodiversity
74, Bungalows, Sports Complex
Near Indiranikunja forest Nagari
Bhopal 462 003, M.P.
Tel: 0755 2554549
Email: <mp_biodiversityboard@yahoo.co.in>

Tom Naiman
Director, Curriculum Development &
International Education
Wildlife Conservation Society
2300 Southern Boulevard
Bronx, New York 10460, USA
Tel: 718 220 5100
Fax: 718 733 7748
Email: <tnmairn@wcs.org>

R. Parasuram, IAS
Principal Secretary, Govt. of M.P.
Office of the Chief Minister
Tourism, Biodiversity & Biotechnology
Dept. 508, Vallabh Bhavan
Bhopal 462 004, M.P.
Tel: 91-755-2441386 (O)
Fax: 91-755-2556634
Email: <parasuram@mp.nic.in>

B. M.S. Rathore
Member Secretary, M.P. Biodiversity Board
Forest Department of Madhya Pradesh
Van Bhavan, 1st Floor, Tulsinagar
Bhopal 462 003, M.P.
Tel: 0755 2554549, 094251 74602
Email: <bms_r@yahoo.com>
<cfseoni@sancharnet.in>
<mp_biodiversityboard@yahoo.co.in>

Sally Walker
Founder/Hon. Director
Zoo Outreach Organisation
No.29/1, Bharathi Colony
P.Box 1683, Peelamedu
Coimbatore 641 004, Tamil Nadu
Tel: 0422-2561087, 2563159
Fax: 0422-2563269
Email: <zooreach@vsnl.net>

Agenda

Monday – 28 June 2004	
09:00 – 10:00	Registration
10:00- 10:45	Inaugural function
10:45 – 11:00	Tea
11:00 – 11:45	Introduction of participants
11:45 – 12:00	Workshop themes & Materials; Schedule
12:00 – 12:45	Evaluation activities
12:45 – 1:30	Guest speaker: to be announced
1:30- 2:15	Lunch
2:15 – 3:15	Teachers for Tigers, Unit 1 – Tiger Ranges: Yesterday, Today and Tomorrow
3:15 – 4:15	Teachers for Tigers, Unit 1 – Mini Drama preparation
4:15 – 4:30	Tea
4:30 – 5:00	Mini drama performance
5:00 – 6:00	About the Park – Guest Speaker Mr. L.K. Choudhury
Tuesday – 29 June 2004	
09:00 – 10:30	Teachers for Tigers, Unit 1 – From Big cats to Little cats
10:30 – 11:30	Teachers for Tigers, Unit 1 – Tiger Time Line
11:30 – 11:45	Tea
11:45 – 12:45	Teachers for Tigers, Unit 2 – Tigers In culture
12:45 – 1:30	Guest speaker: to be announced
1:30 – 2:15	Lunch
2:15 – 3:45	Teachers for Tigers, Unit 2 – Global perspectives Role Play
	Participants about their country
3:45 – 4:00	Tea
	Observation Game/Spots & Stripes/Colour Challenges
4:00 – 6:00	Trip around the Van Vihar National Park
Wednesday – 30 June 2004	
09:00 – 10:00	Teachers for Tigers, Unit 3 – Pugmarks, Camera Trap, radio collaring
10:00 – 10:30	Project Tiger map game
10:30 – 11:00	Feeding Ecology
11:00 – 11:15	Tea
11:15 – 11:45	Resource Roundup
11:45 – 12:30	Teachers for Tigers, Unit 3 – Nagarahole Citizen's Debate
12:30 – 1:15	Lunch
1:15 – 2:15	Teachers for Tigers, Unit 4 –International Tiger Conservation Conference
2:15– 3:00	Evaluation
3:00 – 3:45	Personal commitments. Closing Statements/Presentation of certificates
3:45...	Tea Break and leaving

Teachers for Tigers – Zoo Educator Workshop

Van Vihar National Park, Bhopal, Madhya Pradesh

28-30 June 2004

Minutes

Reporters: R. Marimuthu, Gigi Joseph and M. Mohan Kumar

9.00 o' clock the registration of participants was done by B.G. Mridula, Payal and Geetha Shrestha

10.00 a.m: Inaugural function

Dignitaries on the dais

Mr. Tom Naiman, WCS

Ms. Sally Walker, Z.O.O.

Mr. B.M.S. Rathure, Member Secretary, M.P. Bio-diversity Board

Mr. Parasuram, Principal Secretary, Madhya Pradesh, Bio-diversity Board and Personal Secretary to Chief Minister of MP.

Mr. L.K. Choudhry, Field Director Van Vihar National Park, Bhopal.

Dr. B.A. Daniel, Scientist, Zoo Outreach Organisation

Dr. B.A. Daniel, welcomed the gatherings and introduced the dignitaries on the dais and requested the following persons to give their inaugural address..

Ms. Sally Walker: Welcomed all the dignitaries, introduced the foreign participants who came from Malaysia, Afghanistan, Nepal and Bhutan to other participants. She added that she has been to Van Vihar 8 or 9 times which is unique in the world and stands as an example for the zoos of the world. She asked the teachers to bring their students to Van Vihar NP after the workshop and teach them the new techniques they learned from the workshop to value the resource..

B.M.S. Rathure: In his address, talked about the Pench workshop and how the participants felt about it and thanked Zoo Outreach Organisation for conducting these workshops. He also appreciated the 25 teachers who came from different villages in and around Pench that they have actively taken part. He also asked the teachers participating in Bhopal to educate more of their conservation values to their students.

Tom Naiman: Welcomed the participants and told about Wildlife Conservation Society and its functions and also he noted that education is the critical part and role of teachers in nature conservation and also he said that the focus is not only the tiger but the whole bio-diversity. He talked about the previous workshop that was run by Zoo Outreach Organisation and Wildlife Conservation Society and about previous participants again

attending this workshop to exchange information and ideas with the new participants. He thanked all and funding agencies in U.S.A.

L.K. Choudhury: He talked about Van Vihar National Park and also what he is doing at the Zoo that is regular courses for teacher and students.

Mr. Anand, the intern asked participants to tie the “tiger rakis” to each other.

R. Parasuram: In his speech he discussed he is proud to see team of delegates coming to work for environment, wild life and it leads to tiger conservation. Learning process should be by interacting with each other.

Asked to raise the hands of participants who has ever seen the tiger in wild. Only few of them answered yes.

Talked about Bandhavgarh and Kanha tiger reserves and also hinted about project tiger. He also mentioned about the supreme court directive i.e., environmental education is part of our curriculum – supreme court played important role in training this decision. He suggested that from class 1-8 Environmental education is going to be part of school curriculum. He requested the teachers to work hard to find the way to plan project-based activities.

4. Day CAMP: Also added that during in special occasion they conduct a district or state wise programs and select 4 top students and 2 teachers and they will arrange 4 day camp at Pench Tiger Reserve to learn the biodiversity through some activities in this area.

Lalith Bahndari: From Bio Diversity Board, MP gave vote of thanks.

First Session: B.A. Daniel: Asked the Participants to introduce each other by an animal activity (game) “Sound off”.

11.45 am

Evaluation Techniques: By Amith (2.10 pm)

Explained different activities and how to do it

1. Concept map 2. Story writing 3. Attitude assessment 4. Content Survey

Content Map:

Asked the Participants and a make a map on the paper about tiger. And once they have done he collected all for further activities in future.

Session: 2

Mr. B.M.S. Rathore (Guest Lecture). Before his presentation has brought two local medicinal plants and asked the teachers to identify them and explain explain about the medicinal use.

In his presentation he talked about medicinal Plants diversity and they used for Traditional, Allopathy. He showed “Biodiversity Register ” which document all the species in this register around the school are including all animals and plants.

He assured to the participants that the Bio-diversity Board could do what they can, when one of participant asked what Biodiversity Board could do for them.

And also he mentioned that the education should formal & informal and also for ourselves. Not always depend on Govt. to do these things. Develop strategies from a network and if you need any help the government can support.

1.30 pm Mr. Tom Naiman conducted the forenoon session

1.30-2.15: Lunch Break

Session: 3.

Mr. Tom Naiman conducted this session. He talked about the workshop themes & materials of “Teachers for Tiger Workshop Manual”. When he talked about the manual he said that the manual is a comprehensive resource for educators and could work with any kind of target groups. It has activities for children, family groups, etc. He explained the table of content of manual in detail.

He pointed out that the manual has activities for Biology, Mathematics and Environment Science, which teachers can use for any kind of audience by zoo Educators, or museum curator, or People working in the protected areas. He requested the teachers to use the manual to make impact and to develop positive attitude about tiger amongst the children’s..

Session: 4 2.40 pm Mr. Anand:

Tiger Range: Yesterday: Today and Tomorrow:

Mr. Anand and Gowri Shankar conducted this session

Anand explained about the activity after dividing the participants into groups. The resource group provided the participants the maps of historic and event range and habitat of Tiger maps. And asked the participants assemble their in a correct way. Let the participants to find out the habitat, the subspecies and depletion of their status.

4.55 pm: Mr. L.K. Choudhury: (Guest Lecturer)

Mr. L.K. Choudhury shared his experience in Tiger Reserves and about Tigers. He covered all aspects of Tiger.

20.6.04: 9.10 am

Session: 1 Little Cats to Big Cats

Mr. Murali and Ms. Mridula did this session. This outdoor activity was carried out to understand the following behavioral aspects of tiger:

1. Body size & weight
2. Jumping

3. Hunting
4. Climbing
5. Camouflage
6. Eating
7. The Tail
8. Speed
9. Territoriality
10. Communication

All the above themes were done through activities given in the manual. Ms. Geetha, Mr. Mohan, Mr. Mus lead these activities. The teachers really enjoyed this session.

Session: 2 Tiger Timeline 10.40 am

Ms. Geetha and Mrs. Payal conducted this session. They explained to the participants about important incidents happened between Man-Tiger relationships from 1700 → 2050. And asked the participants to draw a poster on a piece of paper. Later, they were asked to explain about their theme and poster before it was displayed on the wall.

Session: 3 Global Perspectives. Tigers in our Culture 11.45 am.

Mr. Gowri Shankar conducted this session. Again divided the participants in to different groups and asked the participants to find out the name found in the following categories

1. Mythology
2. Advertisement
3. Games
4. Songs/ Movies/ Stories
5. Art
6. Others
7. Name/ People/ Animals
8. Literature

Actually, the participants were able to find out many things out of this activity.

Session: 4 12.50 pm Mrs. Payal

- a. The first observation game she asked to find a partner to form a pair and asked to observe each other for 5 seconds. They were asked to turn back and make a change in their appearance or any such thing. The activity is that they have to find the change in them.
- b. The second observation game she was done by dividing the participants into groups and asked them to observe spots and strips in the natural things for 10 minutes and report their findings.

Mr. Gigi told that this type of observation game is motivational and Tom added that it brings creativity amongst the children's.

1.30- 2.15 Lunch Break

Guest Lecture: By L.K. Choudhary

2.15 pm: Mr. L.K. Choudhury gave a slide show talk on “Van Vihar National Park”. In his speech he covered the area, fauna, flora and also its objectives. He also added that Van Vihar is “Green Lungs for Bhopal”. He went on to say that the fund they got from CZA, gave money plough back to zoo experience, free ranging herbivores and 183 birds species out of them 34 were migratory birds and facilities for visitors. After this talk, the participants were taken into the National Park as part of field visit.

30.6.04 9.30 am

Session: 1 Global Perspectives Role Play:

Mr. Gigi Joseph has coordinated this session. He divided the group into 5 categories ie.,

1. Advertising executives
2. Politicians
3. Farmers
4. Poets and
5. Newspaper Reporter.

Asked them to use as “Tiger” is their main theme and include their view on tigers.

Actually the participants came up with good ideas in this activity.

Session: 2 Tiger Conservation- Project Tiger Reserves- India, By Dr. B. A. Daniel 10.45 am

B.A. Daniel coordinated this session. He supplied the India map in which the Tiger Reserve in India were dotted and ask the participants to name of the Tiger Reserve as much as they can with the help of the list of tiger reserve table provided in the Manual.

Session: 3 From Awareness to Attention: Counting Tigers: Pugmarks & Camera Traps: By Gigi Joseph

Mr. Gigi Joseph conducted this session. At first, he explained about the Tiger Census technique. After that he demonstrated how to take the pugmark and differentiate the male from the female and other cats.

Mr. Anand explained about the Camera Trap method, another type of census technique used to estimate the Tiger population.

In continuation of it Anand explained how the home Range of Tiger can be assessed by Radio- Tracking. He supplied graphs to participants and made them to plot the range of different tigers that is available from Nagarhole study.

12.55 pm. Feeding Ecology of Tigers – Mr. Amith

This session was co-ordinated by Mr. Amith

He has asked the participants what are the prey species of tiger. They gave different answers for that Mr. Amith gave an example from Nagarhole case study and informed that the major prey species and its percentage: Gaur 15% Chitah 45.6%, Sambar 22.8%, Wild Pig 16.8% and also he reminded the group that an average tiger kills about fifty large prey per year. And he asked them to use the percentage to figure out how many prey species will be killed by an average tiger with the following prey species availability.

Gaur - 7.5, Chital- 22.8, Samabr – 11.4, Wild Pig – 8.4

This is an example from Nagarhole studies, where 52 tigers are there and the consumption will be as follows:

Gaur: $7.5 \times 52 = 390$ Gaur

Chital: $22.8 \times 52 = 1186$

Sambar $11.4 \times 52 = 593$

Pigs: $8.4 \times 52 = 437$

And also we asked the participants what factors cause the mortality in prey species?. The major factors are Disease, Climate, Hunting, Habitat destruction, etc.

2.15 pm Session: 5 Resource Roundup Sonam and Uagen

This session was co-ordinated by Ms. Sonam and Uagen in out door. This has done by a activity with four groups namely food, water, space and Tiger parts. Through this activity the participants learned what had happened when the human population increased. And it made Tiger population depleted.

3.00 pm. Saba Hussian M.P Biodiversity Board

Ms. Saba Hussain for M.P Biodiversity Board explained their activities they are doing and they are in a position to grant fund for small project of “Environmental Education Programme” to the schoolteachers. And she had said that if any body is interested then contact the following address:

Madya Pradesh Biodiversity Board

74, Bunglows

Sports Complex

Near Indira Nirunj Nursery

Bhopal

Tel: 2554539/49

3.05 pm International Tiger Conservation Conference: Mr. Tom Naiman

This session was co-ordinated by Mr. Tom Naiman. He gave seven Tiger Conservation Strategies and asked the participants divided into groups, given 100 marks for the seven strategies and asked them to prioritize them by assigning marks to the categories as they wish.

The groups came up with different level of marks in which most of groups given the highest mark to education.

After this session, the participants were asked to fill up evaluation form and pledge card.

4.05 pm Valedictory Function

Mr. Daniel welcomed Mr. L.K. Choudhury, Mr. Tom Naiman, Ms. Sally Walker, teacher participants and all interns.

Distribution of Certificates: Invited Mr. Tom Naiman of WCS to handover the certificates to the participants. Mr. Tom in his address said that wonderful three day

course and wonderful place. And he hoped that Teachers from Bhopal very impressive and enjoyed this course and also said that this is just a beginning of our relationship not an end. He also asked the teachers to formulate strategies targeting their children and it will be productive. And also he again thanked all those involved in this workshop.

Ms. Sally Walker: In the address she mentioned that she was so happy to see the dedication of teachers during the course. And also mentioned that Zoo Outreach Organisation will make Zoo Education Packets. And also informed to the participants, how well apply the things you have learned in past three days, we want to come back here to see the same group and see what they are doing, in next six months.

She mentioned that ZOO supply the packets free of cost but requested the teachers not give them right away but with some activities. Thanked Van Vihar National Park staff, Zoo Outreach staff and thanked every body.

L.K. Choudhury: He assured that the VVNP would provide all assistance to the teachers at any time if they want to conduct education programme at the Zoo.

Lalith Bhandari gave vote of thanks and invited all to join for tea.

Teachers for Tigers

Minutes on

Workshop at

National Zoological Park

New Delhi, India

1 – 3 July 2004

By

Geeta Shrestha, A. Manimozhi & M. Mohan Kumar

National Zoological Park
Participants List

Nafeesah Ahmed
Go Wild Workshops
NNP, Plot No. 6
Building No. 5A, Flat No.13
Goregaon East, Mumbai - 400 097
Maharashtra
Tel: 022 38048893
Email: <nafeesah_a@yahoo.com>,
<gowildworkshops@yahoo.co.uk>

Jose Louis Alex
Project Officer, Wildlife S.O.S.
D-210 Defence Colony
New Delhi 110 024
Mobile: 9810355075
Email: <info@wildlifesos.com>

A. Sha Arun
Veterinary Officer, Wildlife S.O.S.
D-210, Defence Colony
New Delhi 110 024
Mobile: 98370-32447
Email: <bearvets@wildlifesos.com>

Dilpreet Beasley
Campaigns Coordinator, Peta India
People for Ethical Treatment of Animals
P.O.Box 28260, Juhu
Mumbai 400 049, Maharashtra
Tel: 022-26281880/79
Fax: 022-26281883
Email: <dilpreetb@petaindia.org>

Sonali Chanda
Silver Oaks Apartment
No. 113/1-C2, DLF Qutab Enclave Phase I
Gurgaon -122002
Tel: 5053410, 9811559707

Vinod Diwan
Wild Education Volunteer
Conservation Himalayas
Verma Niwas, New Mashobra
Shimla 171 007, Himachal Pradesh
Tel: 0177-2740451
Email: <vinu-desperate@yahoo.co.in>

Ganesh Kumar Dubey
Chief Vety. Officer, I/C Zoo Education Unit
Maitry Baag Zoo
7A/SPA/Sector 9
Bhilai 490 006, C.G.
Tel: 0788-2242323
Email: <dubeyganesh@hotmail.com>

Ashish Dutt
Project Assistant, Centre for Environment
Education-Himalaya
19/323, Indira Nagar
Lucknow 226 016, Uttar Pradesh
Tel: 0522-2715301
Fax: 0522-2716628
Email: <ashish.dutt@ceeindia.org>,
<ceehimalaya@ceeindia.org>

Sudipto Ghosh
Project Co-ordinator, Panna Forest Division
Panna Tiger Reserve
Forest Development Agency
Panna, 488 001, Madhya Pradesh
Tel: 07732-252135, 252029
Fax: 07732-252120, 254060
Email: sudiptoghosh1977@yahoo.co.in

Kumar Swami Gupta
Assistant Conservator Forests, Forest Campus
Madhuban Colony, Opp. Mohta Park
Chetak Circle, Udaipur, Rajasthan
Tel: 0294 2453686
Fax: 0294 2453686
Email: <WLWARDEN@Sanchar.net.in>

Umesh Chandra Joshi
Bharat Ratna Pandit Gobind Ballabh Pant High
Altitude Zoo
Nainital Uppar Danda, Tallital Nainital
Nainital - 263 002, Uttarakhand
Tel: 05942-237927 (O), 237772 (R)
Email: <rachit_joshi@sancharnet.in>

Riaz Ahmad Khan, Education Assistant
National Zoological Park
Madhura Road
New Delhi 110 003
Tel: 011 2435045 (R)
Fax: 011 24352408

Manoj Mahapatra
Assistant Director
Nandankannan Zoological Garden
Bhubaneswar 754 005, Orissa
Tel: 0674 2330276, Mobile: 9437050310
Fax: 0674-2466075, 2547850

A. Manimozhi
Biologist, Arignar Anna Zoological Park
Vandalur
Chennai 600 048, T.N.
Tel: 044- 23751089 (O), 22399682 (R)
Fax: 044-23750746
Email: <aazp@vsnl.com>

Uma Menon
Education Officer, Wildlife S.O.S.
D-210 Defence Colony
New Delhi
Mobile: 246219393

Murali Pai
ER Manager, Wildlife Trust of India
C- 644, New Friends Colony
New Delhi - 110 065
Tel: 011 26326025- 26
Fax: 011 26326027
Email: <muralipai@wti.org.in>

Pratibha Raj, IFS
Joint Director, National Zoological Park
Mathura Road
New Delhi 110 003
Tel: 011-24358500

Sonal Rathore
Project Associate, Centre for Environment
Education-North
19/323, Indira Nagar
Lucknow 226 016, Uttar Pradesh
Tel: 0522 - 2716628
Fax: 0522 2716570
Mobile: 9415433196

Email : <ceenorth@ceeindia.org>,
<enviroathore@yahoo.com>

Santosh Kumar Sahoo
Chairman, Conservation Himalayas
Verma Niwas, New Mashabra
Shimla 171 007, Himachal Pradesh
Tel: 0177-2740316
Email: <chimalayas@yahoo.com>

Kartick Satyanarayan
Chairman & Field Worker, Wildlife S.O.S.
D-210, Defence Colony
New Delhi 110 024
Tel: 011-24621939 (O),
Mobile: 9810114563
Fax: 011-24644231
Email: <kartick@wildlifesos.com>,
<wsos@vsnl.com>

Geeta Seshamani
Chairperson, Wildlife S.O.S.
D-210 Defence Colony
New Delhi 110 0024
Tel: 011-24621939

Savitri Shreekant
Freelance Photographer for Wildlife
National Zoo
1 U.F. Safdar Hashmi Marg, Bengali Market
New Delhi 110 001
Tel: 011-23725047
Mobile: 9818039401
Email: <sujaya12345@yahoo.com>

Kamal Kishore Soni
Forest Department, Jodhpur
171-A Laxmi Nagar
Jodhpur - 342 010, Rajasthan
Tel: 0291-2635429 (O), 2549190 (R)

Vinod Tiwari
General Secretary, Sanrakshan
30/17/3, Swarn-Path, Mansarover
Jaipur 302 020, Rajasthan
Tel: 0141-2391595

Amit Eknath Chavan
Project Coordinator, Nature Information Centre
Sanjay Gandhi National Park, Borivali East
Mumbai 66, Maharashtra

Tel: 022-3097 2620
Mobile: 098206 20148
Email: <gpvamit@yahoo.co.in>

B. A. Daniel
Scientist, Zoo Outreach Organisation
No.29/1 Bharathi Colony, P.Box 1683
Peelamedu
Coimbatore 641 004, T.N.
Tel: 0422-2561087
Fax: 0422-2563269
Email: <icinsa@vsnl.net>

Kundhavi Devi, Education Officer
Madras Crocodile Bank Trust
Mamallapuram 603 104
Tel: 04114-272447
Fax: 04114-242511
Email: <mcbtindia@vsnl.net>

Mohammed Fazil
Education Officer, Kabul Zoo
Barikut Park
Kabul, Afghanistan
Mobil: 0093-070286622
Email: <fazil_saidal@yahoo.com>

Gigi K. Joseph
Extention Education Officer
Periyar Tiger Reserve
Thekkady 685 536, Kerala
Tel: 04869-222027
Mobile: 09447432891
Fax: 04869-223750
Email: <gigiperiyar@yahoo.co.in>

Musnarizal Abd. Manap (DPA.ITM)
Educational Officer, Zoo Taiping & Night Safari
Taiping Municipal Council
Peti Surat 115, 34008 Taiping
Perak Darul Ridzuan, Malaysia
Tel: 605-8086577
Fax: 605-8066025
Email: <zooed@zootaiping.gov.my>

R. Marimuthu
Pavattakudi Post
Kollumangudi Via
Mayiladuthurai 609 403 Tamil Nadu
Tel: 04366-233831
Email: <marimuthu_ind@yahoo.com>

Payal B. Molur
Go Wild Workshop
64, Bharathi Coloy
Peelamedu
Coimbatore 641 004, T.N.
Mobile: 0422-3331014
Email: <chirpyp@yahoo.com>

Mohan Kumar Moolepetlu
Mysore Amateur Naturalists (R.)
227, 3rd Main, A-1 Block, 3rd Stage, Vijaya
Nagar
Mysore 570 017, Karnataka
Tel: 0821-2412612 (O), 2567970 (R)
Email: <mohana_man@yahoo.co.uk>

B. G. Mridula
Bapu Nivas, 132 5th Main
Prashanthnagar
Bangalore 560 079, Karnataka
Tel: 080-23284741
Mobile: 98800-93292
Email: <mridula.bg@indiatimes.com>

J. Murali, Education Officer
World Wide Fund for Nature-India
Tamil Nadu State Office
No.297, TTK Road, Alwarpet
Chennai 600 018, T.N.
Tel: 044-24994827, 24997107
Mobile: 09841510305
Email: <wwftnso@sify.com>,
<wwftnso@touchtelindia.net>,
<j_murali@yahoo.com>

Anand Pendharkar
Director, SPROUTS
68/4, Tarun Bharat Society
Chakala, Sahar Road, Andheri (East)
Mumbai 400 099, MS
Tel: 022-28368647
Mobile: 9820140254
Email: <sprouts@indbazaar.com>,
<appcoral@hotmail.com>

P. Gowri Shankar, Research Associate
Pilikula Biological Park
Pilikula Nisarga Dhama
Moodushedde post, Vamanjoor
Mangalore 575028, Karnataka
Tel: 0824-2263300 (Office)

Mobile:098459-69095
Email: <pogirishankar@rediffmail.com>

Geeta Shrestha
Executive Chairperson, NATURE
138, Banijya Marga, Bijuli Bazar
New Baneshwor, P.Box 20543
Kathmandu, Nepal
Tel: 977-1-4781136, Mobile: 9851056325
Fax: 977-1-470235
Email: <rabigeeta@hotmail.com>

B. S. Bonal, IFS
Director, National Zoological Park
Mathura Road
New Delhi 110 003
09810379839 (Mobile) 01124359825, 24358500
(office), 24352408 (Res)
Email: <delhizoo@vsnl.net>

Rajesh Gopal, IGF & Director, Project Tiger
Ministry of Environment & Forests
Govt. of India
Bikaner House, Annexe-V
Shahjahan Road
New Delhi 110 011
Tel: 011-23389645 (O), 24652901 (R)
Fax: 011-23384428
Email: <dirpt-r@hub.nic.in>
<rajeshgopal@vsnl.net>

N. K. Joshi
Director General & Special Secretary
Ministry of Environment & Forest, Govt. of
India
Parayavaran Bhawan
CGO Complex, Lodi Road
New Delhi 110 003

A. K. Malhotra
Curator (Education)
National Zoological Park
Mathura Road
New Delhi 110 003
01124359825, 24358500 (office)
Email: <delhizoo@vsnl.net>

Tom Naiman
Director, Curriculum Development &
International Education
Wildlife Conservation Society
2300 Southern Boulevard
Bronx, New York 10460, USA
Tel: 718 220 5100
Fax: 718 733 7748
Email: <tnmairman@wcs.org>

Sally Walker
Founder/Hon. Director
Zoo Outreach Organisation
No.29/1, Bharathi Colony
P.Box 1683, Peelamedu
Coimbatore 641 004, Tamil Nadu
Tel: 0422-2561087, 2563159
Fax: 0422-2563269
Email: zooreach@vsnl.net

Agenda

Thursday – 1 July 2004	
09:00 – 10.00	Registration
10.00 - 10:45	Inaugural –
10:45 – 11:00	Tea
11:00 – 11:30	Workshop themes – Teaching techniques (& Materials; Schedule) Tom Naiman
11:30 – 12:00	Introduction of participants – Daniel
12:00 – 12:30	Evaluation activities – Amit
12:30 – 1:30	Guest speaker – Sally Walker -- Zoos and Conservation with special reference to education
1:30- 2:15	Lunch
2:15 – 3:15	Teachers for Tigers, Unit 1 –Tiger Timeline - world distribution of tigers - Kundhavi
3:15 – 4:15	Tiger ranges – Yesterday, Today, Tomorrow – Anand
4:15 – 4:30	Tea
4:30 – 6:00	Mask Making - Mini Drama preparation and presentation – Gowri/Payal
Friday – 2 July 2004 – Day two	
0900 – 09:45	Guest Speaker – to be announced
09:45 – 10:15	Organizing education at Zoos - Mr. B.S. Bonal – National Zoo, Delhi
10:15 – 10:45	Dr. A. Manimozhi – Arignar Anna Zoological Park, Chennai
10:45 – 11:00	Tea
11:00 – 11:45	Tigers in Culture, Teachers for Tigers, Unit 2 – Mridula/Gowri
11:45 – 12:30	Teachers for Tigers, Unit 2 – Global perspectives Role Play – Payal/Mus
12:30 – 1:30	Guest speaker – Manoj Mishra, Tiger Trade – Q & A
1:30 – 2:15	Lunch
2:15 – 2:45	Project Tiger map Activity – Gowri/Mus
2:45 - 4:00	Teachers for Tigers, Unit 4 – Pugmarks and Camera Traps, radio collaring – Gigi/Anand
	Tea
4:00 – 6:00	Integrating what we have done in to Zoo Education - Tom/Daniel/Payal
Saturday – 3 July 2004 – Day three	
9:00 – 9:30	Arrival at Zoo and Introduction to Zoo
09:30 – 10:30	Zoo Tour
10:30 – 11:00	Zoo Tour cont....Observation Game/Spots & Stripes/Colour Challenges – Mridula/Mohan
	Working Tea
11:00 – 12:00	Teachers for Tigers, Unit 1 – From Big cats to Little cats at tiger exhibit (Zoo) – Payal/Mohan/Murali/Geetha/Mus/Fazil
12:00 – 1:00	Life on Earth, B.A. Daniel
1:00 – 1:30	Teachers for Tigers, Unit 4 – Resource Round-up - Kundhavi
1:30 – 2:15	Lunch
2:15 – 3:15	Teachers for Tigers, Unit 4 – Conservation Conference / How to make a difference – Gigi/Mus
3:15 – 4:15	Evaluation Activities - Murali
	Tea
4:15 – 4:45	Future Expectations/Introduction and Ordering Tool Kits and Pledge - Daniel
4:45-5:30	Closing ceremonies - Certificate

Minutes of the Teachers for Tigers Workshop at New Delhi

Day one –July 1st 2004

The Teachers for Tigers workshop at Delhi was held at Indian National Science Academy and National Zoological Park from July 1-3, 2004.

Mrs. Payal Molur introduced the dignitaries on the dais during the inauguration. Mr. B.S. Bonal, Director, National Zoological Park welcomed and encouraged the participants to actively participate in the workshop and asked them to learn more. Ms. Sally Walker, Founder Secretary, Zoo Outreach Organisation welcomed the participants and highlighted how the Chennai workshop “Teachers for Tigers” was found relevant to the zoo educators and so was being organized in Delhi. In her speech she also carried out Rahshabandham –tying Rakhi to each other to signify the participants commitment to wildlife. The chief guest Mr. Tom Naiman, Director, International Education and Curriculum Development from Wildlife Conservation Society, USA address the audience. He expressed his happiness at being able to conduct the tiger workshops in India as it is the land of the tiger. He also said that although this was the eighth workshop in each one he learnt a lot and met a lot of interesting people. He hoped that the participants could learn as much as he learn. Mr. A.K. Malhotra National Zoological Park, gave vote of thanks to participants & Organisers. After the inauguration was over all the participants and dignitaries invited to tea.

Dr. B.A. Daniel introduced an Ice breaking activity of introducing participants.

Tom Naiman in his special address informed that he was very delighted to conduct a workshop in New Delhi. Moreover he highlighted the workshop concept and theme to the participants. Teachers for Tigers workshop is not only for tiger education but much more broader perspective of Biodiversity conservation. Tiger is taken only as a symbol but truly it is a critical tool for environmental issues. At the end Tom welcomed everyone once again and thanked the participants for their participation.

Session: 1. Tom Naiman

Introduced the workshop theme and concept to the participants and also highlighted the importance of evaluating the programme to further any improvement in the education programme. He also introduced Ms. Sally Walker to the participants and talked about her hardworking nature and her ability to organize several programmes in India.

Sally presented a thoughtful talk with special reference to Education as guest lecturer. She also emphasized that zoos and their changes. She also emphasised that zoos should do conservation conscience, responsibility to help people change. Moreover she introduced immersion exhibits role and importance.

Lunch break 1.45 pm to 2.10 pm.

Resource materials distributed to participants by the ZOO crews. All together 23 participants from different Zoos, NGOs and environmental organization and 16 interns participated in the workshop.

Tom explained the educational tiger manual origin and its importance. He also emphasised that it was prepared to meet the requirement of all the people of the world. Enlightened the purpose relevance of the book and explained the manual content and its significance unit wise.

Ms. Kundhavi Devi introduced the Tiger Timeline as part of unit I. As explained in the unit she explained nicely to participants. The participants were provided with colour pencils white papers etc. Participants made posters and got feed back from them about their posters.

Mr. Anand Pendharkar explained the world distribution of Tigers, Tiger ranges yesterday, today and tomorrow to the participants as explained in the unit. From this exercise the past and present distribution of Tigers and its factors which effect population growth was presented to the participants group wise. Status of the eight species of tigers was also explained.

Mrs. Payal Molur explained to the participants how to make simple, cost effective tiger masks.

Mr. Gowri Shankar explained how to prepare a mini drama. He divided participants into 4 groups and each one was given a topic of courtship, hunting parental care, and poaching.

4.40- Tea Break

Each group performed their drama very effectively without dialogue, just animal and natural sounds.

Day-2 2.7.04

9.15-9.50

Mr. Tom Naiman introduced Dr. A. Manimozhi, Biologist, Arignar Anna Zoological Park as a guest lecture. Dr. Mamimozhi presented a realistic talk on “Role of Arignar Anna Zoological in Conservation Education”. His speech comprised of formal and informal education programmes in AAZP. He elaborately discussed informal education viz –Zoo map, Zoo signage animal signage, interpretive signage, interactive interpretive signage. Formal education programmes like Zoo Outreach programme, Zoo School programmes were also presented.

Teachers training programme etc. were also highlighted in his speech. Education survey method was also discussed to help know the perception of the people about the zoo. Finally he cleared the doubts of the participants.

9.50-

Mr. Rajesh Gopal I.F.S. Field Director Project Tiger and incharge Member Secretary, CZA, New Delhi was introduced by Ms. Sally Walker and appropriateness of his talk in this workshop. His speech was realistic and provoking. He highlighted the origin of the project, strategy, need, progress, problem and micro plan of Project Tiger. Moreover he elaborately discussed the problems faced during the pugmark senses and how to solve these constraints. As an in-charge of CZA, he spoke about the need and role of Central Zoo Authority shaping up Indian Zoos. Finally he answered all the doubts of the participants

11.15:

Mr. Gowri Shankar and Mr. Musnarizal an Intern from Malaysia handled the first exercise of project Tiger map activity. In this activity the participants were grouped and some were able to locate all 28 project tiger areas in our country.

11.45.

Ms. Mridula and Mr. Gowri Shankar handled the exercise of Global perspective of Tiger. This exercise comprised of mythology, sports, songs, drama, stories, films, advertisements, literature and others. The participants were grouped into the above categories and asked to perform on the stage. Each group narrated their given topic neatly and with insight.

12.35.

Mrs. Payal Molur and Mr. Musnarizal handled the Global Role play activity. The participants were grouped and each one given character of Government officials, conservationist, Forest Department officials, Human right advocates, Poachers, and Public. In this activity the participants actively participated and gave innovative ideas to solve problems relating to tiger conservation.

1.30. Lunch break.

2.15.

After lunch Mr. Gigi explained how tiger pugmarks are taken in the forest. He explained the methods & techniques that are used in identifying pugmarks of male and female tiger and different individual tigers. He demonstrated this practically. He made a semi liquid of plaster of Paris and poured it in the tiger pugmark which was made on soil and sand.

Mr. Anand Pendharkar explained another technique of tiger counting 'Camera trapping'. How the cameras are fixed and how it works and takes the picture of tiger from both sides and from that picture how the tigers are identified by their body pattern. Anand told participants to see the manual and have a sense of tiger pattern from the camera trapped photos. He also described about Radio tracking.

After Anand Mr. Gigi lead the other lesson on Tiger territoriality in which participants were given a pieces of maps which they had to join and then using coordinates mark the

territory of the tigers. After marking one person from each group interpreted the map and explain about the different tiger territories.

Tom handed out ‘Education and training for conservation’ a draft report prepared by Tom & Sally based on world Zoo Conservation strategy, and requested participants to go through the paper and give their comments of suggestion in next day.

Tea break.

Kundhavi & Payal conducted the resource round up game and demonstrated how human & Animal destroy the natural resources and how the human growth impacts the animal sustainability.

3rd Day: 3.7.04

9.15 am:

The group reached the National Zoological Park’s Education Centre. Mr. Bonal, Director, NZP welcomed the participants.

9.50 am:

Mrs. Payal Molur introduced the Director, NZP to the participants. Mr. Bonal gave an introduction of NZP. He narrated all the aspects of the NZP. He covered diversity of species, its numbers, staff pattern and their responsibilities, education programmes and the problem facing the Zoo. Finally the participants asked questions that were cleared by him. After his talk, Mridula played the observation activity. Then the participants were grouped in two and they had to observe their partners. After 30 seconds each person changed one thing and face the partner again. They then had to figure out what change had been made.

This led to Mridula & Mohan introducing the activity of Spots and Stripes. Then the participants grouped into threes were asked to observe the stripes and spots of the Zoo animals as they went around on a zoo tour. All participants taken around the zoo by the zoo officials in four Battery operated vehicles. Mr. Malhotra, Curator explained the difference between the civets and small cats and their population in the wild.

When the participants reached the white tiger enclosure Mr. Malhotra explained the story of origin of white tigers in India and their significances. After that the participants were taken to the veterinary hospital of the park where the Director and Dr. Pannerselvam, Veterinary officer of the park welcomed the participants. Dr. Pannerselvam explained his role in the disease control of animals. The participants were shown the veterinary hospital. The hand reared Jaguar cub fascinated the participants. The zoo had taken the help of a local NGO to raise the Jaguar cub by taking a stray dog. The dog was nursing the 2 month old Jaguar cub and its own puppy by giving both milk.

After the zoo tour the participants returned to the Education Centre. Dr. B.A. Daniel gave a nice talk on the story of life on Earth. He explained the origin of earth, continental

drift theory, origin of species, population explosion, threats to biodiversity and the necessity of conserving each and every organism on the earth.

1.45

Ms. Payal Molur introduced the new activity of small cats to big cats to the participants

1.45 to 2.30

Lunch Break

The above activity was continued. Height and weight, Jumping ability in relation to height, body pattern, and communication skills were demonstrated lively by the interns

Geetha demonstrated the hunting behaviour of tiger. She made the participants play 'Red light Green light' activities and explained how tiger should be as quiet as possible while hunting otherwise the tiger will lose the prey.

Mr. Gigi gave an introduction to the Tiger conservation strategy. Mus organized the participants into three groups viz NGOs, Forestry & Zoo. The groups had a brain storming session to formulate seven strategies to aid international conservation of tigers. They also conducted the activity, "How to make a difference" in which participants gave points for conservation action as per their priority.

At the end of the session pledge cards were signed and read out by the participants and concepts maps was also done as part of the evaluation activities.

Valedictory

Mr. Amit Chavan an intern welcomed the chief guest Mr. N.K. Joshi, Director General & Special Secretary, Ministry of Environment & Forest, Govt. of India to the valedictory function.

Mr. B.S. Bonal, Director, National Zoological Park then gave the welcome address and expressed his thanks to the chief guest for supporting the workshop and the zoo and for sparing his valuable time. Mr. Tom Naiman, Director, Curriculum Development & International Education, Wildlife Conservation Society then gave a brief summary of the workshop and the future expectations.

Mr. Amit invited the participants to give their comments. Mr. Manoj Mahapatra, Assistant Director from the Nandankannan Zoo spoke about how useful the tiger workshop was to him and how he could use it at the Nandankannan Zoo. Mr. Jose Louis Alex from an NGO - Wildlife S.O.S. expressed his thanks for an eye opening workshop and hoped that there would be many more.

The dignitaries on the dais were then invited to plant a tree in the zoo premises as a mark of commitment to wildlife conservation.

The participants were given their Certificates and 50 educational packets by the chief guest Mr. N.K. Joshi and Mr. Tom Naiman.

Mr. N.K. Joshi addressed the audience. He said that after hearing about the workshop he wished he could have attended and hoped the participants would use the knowledge they gained wisely. Ms. Sally Walker, Founder/Hon. Director, Zoo Outreach Organisation gave the vote of thanks. She thanked the National Zoological Park and staff, INSA and staff and the Interns and Participants for making it good workshop. She also specially thanked Zoo Outreach Organisation staff, who worked tirelessly behind the scenes to make this a successful workshop.