

# RAPHIA

The Newsletter of Canadian Organization for  
Tropical Education & Rainforest Conservation



ISSN 1188-7425

Volume 6 No. 2  
Summer, 1997

## SQUATTERS REMOVED!



BEFORE

**T**hanks to the efforts of our members and others, the Costa Rican authorities recently moved in to clear out squatters illegally claiming land in and adjacent to the Barra del Colorado Wildlife Refuge. In our last issue (Volume 6, No. 1) we reported on the influx of squatters to areas near Cano Palma Biological Station. These are not destitute people looking for a place to live, but rather are primarily people who already have houses in the village of Tortuguero, but were taking advantage of the law in Costa Rica in order to claim additional land, with the intention of selling it after it became legally theirs through squatting rights.

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*"Two days later...we  
were greeted by  
clouds of smoke"*

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AFTER

When I visited Cano Palma Biological Station in June, 1997 I took a tour on foot of the area to see for myself just how extensive the problem was. I found numerous huts and cleared areas around the area of the cerro and the east bank of the Cano Palma. Indeed, one house was still under construction. Two days later, upon our return from a visit to Parasmina, we were greeted by clouds of smoke. The Tortuguero Park rangers had finally received permission to move in and evict the squatters. To prevent them from returning the various structures were burned. Eventually the forest will recover if left undisturbed, and it is hoped that the rangers will be diligent in preventing others from moving in or the original people returning.

A few more permanent structures will remain. Unfortunately these are the houses directly across the river from Cano Palma Biological Station. Presumably they are being allowed to stay because they had been squatted on for a few years before being sold to investors. One can only hope that they will be refused any permits to develop.

We want to thank everyone who took the time to write to the authorities about this problem. It just proves that each and every one of us can make a difference!

Marilyn Cole

### VOLUNTEERS WANTED!

Cano Palma Biological Station is seeking volunteers willing to assist at the butterfly farm in the village of Tortuguero. We are looking for people willing to do general maintenance work in the garden and herbarium. You will stay at the station for a minimal fee of \$10 (U.S.) per day. For further information, please contact our Pickering office.

## REPORT OF ANNUAL GENERAL MEETING

COTERC held its Annual General Meeting on May 29, 1997 at the Civic Garden Centre in the City of York. Thanks to the members who took the trouble to attend. We enjoyed Lynn James' jerked chicken, as well as salads and fresh vegetables. Unfortunately Marilyn forgot the cream for the coffee and we had to make do with some powdered creamer with suspicious-looking creatures in it!

The meeting began with opening remarks from President Peter Silverman, who mentioned some of the difficulties in Costa Rica which included the local road illegally constructed through the Tortuguero National Park, and stressed the need to provide the locals with economic alternatives such as COTERC's butterfly farming project.

Brian Henshaw moved and Tom Mason seconded that the minutes of the last Annual General Meeting held on May 9, 1996 be adopted as written. Carried.



PRESIDENT PETER SILVERMAN

Reports: The chair of the Research Committee Dr. Suzanne MacDonald could not be present, so President Silverman read her report. Several university groups visited Cano Palma Biological Station in 1996. The migratory bird monitoring project is continuing; a plant census survey continues in conjunction with personnel from the National Museum of Costa Rica, and during 1996 they discovered a new species of plant. We provided scholarships for two students of Universidad Nacional to conduct their research at Cano Palma Biological Station. Our Vice President Tom Mason conducted an informal study of the reptiles & amphibians of the area; An undergraduate student from Simon Fraser University will shortly begin a study of the poison arrow frogs; A scientist from University of Plymouth, England will return to continue his study of the effects of ecotourism; we will also be hosting two groups each of fifteen delegates who will be attending the American Birding Association annual conference; our Scientific Officer Pat Opay will be attending a conference on biodiversity at the end of June; we are also attracting enthusiastic birders who participate in the Audubon Society's annual Christmas Bird Count. This year it will be held on December 22.

Education: Chair Jim Williams reported that there were eight members on the committee and three meetings were held. Due to transfers, etc. the committee is now down to four members. He asked for help during the day to present programs to school classes. This year 39 presentations were made to school classes in Ajax, Pickering, Scarborough, Richmond Hill, Aurora and Brighton. The Teacher's Manual with illustrations is due to be ready for printing by the fall of 1997, after several delays.

Membership: Ian Morrison presented his report complete with a pie chart to indicate the make-up of the membership. At present there are 117 members. We acquired 22 new members but 20 memberships have expired and have not been renewed. New methods are being tried to increase the numbers. Mailings have been sent out to other conservation groups and follow-up letters to those whose memberships have expired. The Partners in Preservation program has been mildly successful, with 12 patrons to date.

Executive Director: Marilyn Cole presented her report detailing the activities of COTERC this past year which included school presentations, exhibits at various venues; fundraising events such as bingos, barbecues and garage sales. We also received donations from Baka Communications Ltd. (a cell phone with data compatibility) and DayMen Photo Marketing Ltd. (Katadyne water filter) as well as two life preservers for the medical clinic in Tortuguero village. A promotional video will shortly be done by volunteer Todd Southgate. The butterfly farming project is nearing completion and should be open

### **R** APHIA STAFF:

EDITOR JOHN PARRY  
CONTRIBUTORS MARILYN COLE  
MALCOLM ENRIGHT  
PAT OPAY  
TODD SOUTHGATE

### COTERC EXECUTIVE & BOARD

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*"The sense of nature we have will obviously affect our idea of what constitutes proper behaviour toward it.  
- Neil Evernden*

**R**umour has it that one photograph is worth a thousand words. Yet, as I sit here at home sifting through the various stills, and the hours of videotape taken during my stay at Cano Palma Biological Station in June, I am hard pressed to find a single frame that can resurrect the beauty, danger, struggle and life of Costa Rica's neotropical rainforests.

*"The experience wasn't virtual, it was visceral. I wasn't tuned in. I was physically plugged in."*

Cano Palma, as readers of *Raphia* and members of COTERC know, is located just off the canal which connects with Tortuguero. The boat ride along this waterway is truly magnificent. Caimen fill the river, as Howler monkeys fill the air with their unique band of screech. A constant bombardment of bugs; a plethora of flora; and the periodic cackle of macaws greet you upon the journey. I had arrived early on a hot Monday morning, and was picked up and taken to Cano Palma by Pat and Jim — the station's staff. My volunteer mission was centered around shooting and producing a promotional/educational video for the organization. As I gazed to the horizon, still groggy from my flight and river run, immediately I began worrying about how to start capturing, for viewers, the essence of this spectacular ecosystem. Standing alone at the riparian zone, my eyes began to frame the forest for images that would aid in telling the story of biological conservation and education in Costa Rica. Immediately, my ears became attuned to the myriad sounds echoing through Gaia's lungs; fresh tropical smells filled my chest as my flesh felt the sun's June morning scorch in contrast with the damp seasonally humid air. New emotions inside began to stir. Curiously I pondered: Why? I have seen literally hundreds of documentaries, films and photographs about the Earth's giant green swatch. Still, this moment was uniquely different: it was truly experiential. Could this feeling translate to tape?

At no time throughout my visit were my senses not being dunked in a cascade of sights, sounds and sensations. I had visually encountered, through photos and television a rainforest before; however, through a personal connection with this magical region, reinvigorated emotions were triggered. The experience wasn't virtual, it was visceral. I wasn't tuned in. I was physically plugged in. Heightened senses begat a heightened respect, admiration and to a greater degree, an understanding of what is at stake given our species' current destructive path of development and quest for the almighty buck.

**RAFFLE RESULTS**

\*\*\*\*\*  
\* In our last newsletter we \*  
\* announced a raffle to \*  
\* raise funds to purchase a \*  
\* new boat and outboard \*  
\* motor. We didn't make \*  
\* quite enough to purchase \*  
\* these, but we did manage \*  
\* to net \$1,024. \*  
\* The lucky winners are as \*  
\* follows: \*  
\* 1st Prize \*  
\* Debbie Tremblett \*  
\* 2nd Prize \*  
\* Nancy Atwell \*  
\* 3rd Prize Tom Casey \*  
\* 4th Prize John Turtle \*  
\*\*\*\*\*

This venture was also my first contact with the work being conducted at Cano Palma, and those dedicated individuals who have made conservation and education the critical focus of their lives. I was inspired. My hat is off to the women and men who make this project work. It is hoped that when the video we are working on is completed, others in Canada and around the world will be able to see the great efforts that are being put forth in an attempt to heighten public concern, research and respect for this area. Unfortunately, as important a tool as video and television are in communicating the impending environmental message, much of the enigmatic beauty of this forest will evanesce in the transmission. This saddens me. Nothing can replace the experiences of feeling, touching, smelling and encountering nature's allure first hand. I honestly believe, as the quotation above states, that our interpretation and understanding in the world around us will ultimately dictate how we interact with it. A powerful idea. Conversely, the early Quakers believed that if one 'bears witness' to a social problem, the act in itself would raise one's level of commitment to ameliorate said problem. This philosophy has been adapted a number of times by a plethora of environmental groups using the camera as an extension of our own peripheral view. However, as our vision grows global, the remainder of our senses are still confined to the local, and the essence of experience is lost. I don't believe the Quakers had our new wired world in mind when they lived true to their philosophy of social emancipation through personal contact. If we are going to make great gains on the environmental front, there is a need for more folks to take in the experience. And it is here that I must again commend Cano Palma Biological Station and COTERC for their facilitation of such a process. They are making a difference, for they made one in me. I can only hope that when the video is done, more people will learn of their existence and thereby attempt to visit this truly amazing area and the folks behind the ecological dream. The solution to today's environmental enigma may be grounded in this idea of personal connection. As more people experience the magic of rainforests, our collective sense of tropical nature may improve and thus, our "idea of what constitutes proper behaviour toward it".

*by Todd Southgate*

## GREEN SEA TURTLE NEEDS HELP

One of the objectives of Cano Palma Biological Station in Costa Rica is to actively promote and support conservation efforts in the region, especially within the Tortuguero Conservation Area. As a consequence, the station is participating as an active member of the Socio-Environmental committee of the conservation area. This committee is seeking ways to address the problems which face the conservation area, and it is therefore significant that the station has been invited to be a participant.

One continuing problem which the committee has decided to try to work on is the plight of the green sea turtle (*Chelonia mydas*). This animal is of fundamental importance to the conservation area and Tortuguero, as it is a key component of the reason why tourists visit the area. Thus, the green sea turtle has economic and social significance to the village of Tortuguero. But there is of course more to this story. It is an endangered species and an important part of the biological richness of the area.

The government of Costa Rica currently permits fishermen from Limon (a city over two hours away by boat) to hunt and kill 1,800 green sea turtles annually. Most or all of these turtles are taken near or in the Tortuguero National Park (taking turtles inside the park is of course illegal). All this activity in itself is questionable; however, to add to the problem the actual annual kill is estimated at 5,000 turtles — over three times the legal limit. This does not take into account poaching of turtles and eggs which occurs along unprotected areas of the beaches.

The green sea turtle is eaten by many people in Limon, and some argue it is part of the culture. Other refute this argument and add that the

Limon fishermen will not starve if not allowed to hunt the turtle. Additionally, the legends of how turtle and egg consumption will enhance sexual strength are false, and cannot be used to support the ongoing slaughter. On the other hand, the people of Tortuguero depend on the turtle, and they are the ones who are told to protect it, whilst people from Limon con-

**the actual annual kill is estimated at 5,000 turtles — over three times the legal limit**

tinue to harvest the turtle in vast numbers. Ironically the turtle is indeed in trouble in Tortuguero. These Limon fishermen will eventually lose this resource as the population dwindles, and the people of Tortuguero will suffer from losing one of their main tourist attractions. On a larger scale, the world will lose if measures are not taken to control the slaughter.

Currently scientists concerned about the turtle are asking for a study to determine the effects of the hunting on the population, and also a study on the economic impact on those who depend on the turtle. Unfortunately,

at the present time, the government authorities permit turtle hunting and are therefore placing the onus on others to prove they should stop the hunting. Additionally, their control and monitoring of the hunting limit (1,800) is pitifully lacking. In the meantime, there is a very great danger that the population numbers will be put at risk. Given that there is sufficient information to indicate that the population may be threatened, should not the government stop the hunting until it is proven that it does no harm? That is what our committee is requesting. One of the first actions we took was to contact the national newspapers. Two articles have already been published in an attempt to raise local awareness of the problem.

There is still much work for the committee to do, but at least it is a start — something to build upon. Participating in efforts such as this is one of the things that Cano Palma Biological Station is doing to support local conservation activities. Your support of COTERC makes efforts like these possible.

*by Pat Opay, Scientific Officer*

### COTERC FUNDRAISER PLANNED

COTERC IS PLANNING AN EXCITING FUNDRAISING EVENT THAT YOU WON'T WANT TO MISS IF YOU LIVE IN THE TORONTO OR ADJACENT REGIONS. WE'RE HAVING A DINNER AND DANCE ALONG WITH A SILENT AND LIVE AUCTION. THERE WILL BE LOTS OF UNIQUE AND UNUSUAL ITEMS AVAILABLE FOR YOU TO BID ON. FUN FOR THE WHOLE FAMILY!

WHERE? THE ATRIUM, METRO TORONTO ZOO

WHEN? OCTOBER 18, 1997

PRICE OF TICKETS, PER PERSON (INCLUDES DINNER) \$ 37.50

MASTER OF CEREMONIES IS TOBY STYLES, EXECUTIVE DIRECTOR, METRO TORONTO ZOO

TICKETS AVAILABLE AFTER AUGUST 26 FROM THE PICKERING OFFICE. (905) 683-2116

# PHOTO GALLERY OF EVENTS

COTERC HAS HELD SEVERAL FUNDRAISING EVENTS THIS PAST YEAR, INCLUDING A GARAGE SALE AND SEVERAL BARBECUES. WE COULD NOT DO THIS WITHOUT THE WONDERFUL HELP OF VOLUNTEERS. HERE ARE PHOTOS OF SOME OF THEM IN ACTION.



DEBBIE MASON, FRAN MASON, JOAN WATSON, SUE CRAWSHAW  
SUPERCENTRE BARBECUE



JIM STANFORD AND TOM MASON  
SUPERCENTRE BARBECUE



MARILYN COLE - GARAGE SALE

## VOLUNTEERS NEEDED

COTERC is a non-profit group that depends heavily upon volunteers in order to carry on its work. We are currently looking for people in the Toronto/Durham region to help us in several ways:

- Presenters for our school programs
- Someone to help with office chores such as filing, phone calls, etc. one day per week
- Someone to compile mailing lists for sending out information on our

courses at Cano Palma Biological Station

- People to assist with our upcoming dinner/dance/auction

If you can spare a few hours to help us out, we would be very grateful. Please call Marilyn Cole (905) 683-2116



Booth at Pigeon Lake Environmental Association Environment Day

Some recent sightings at Cano Palma Biological Station:

- Roseate spoonbills
- Buffon's green macaw
- Scarlet macaw
- Oxybelis vine snake
- Manatee
- Long-nosed bats

## "COSTA RICAN GOLD"

JOURNAL ENTRY, WEDNESDAY,  
MARCH 26, 1997

Another comfortable morning at Cano Palma. The daily alarm clock "screaming" howler monkeys just before 5:00 a.m. weren't really necessary. This morning I was up and ready to go. The smell of fresh coffee advised me that Jim Brown was already up. The first sign of human life was either Jim or myself first up putting the coffee on. The morning ritual of coffee on the boat dock watching exotic birds flying over the canal sure beats work! Our regular morning visitor at the dock is a juvenile caiman, who over the week of our stay at the station, was always curious swimming over to the dock to see if anyone was going to feed him. This sure is a piece of heaven. An early tour boat passes the dock going up the canal with several lodge visitors from Tortuguero. Suddenly the tour guide throws an empty oil jug overboard; then the reality hit home. It's very difficult to try to save someone else's country and its resources when so many locals don't seem to care. After finishing coffee, our next task was to fish out the oil jug from the canal. By then the camp had come alive. People were moving about in anticipation. Today we search for Costa Rican gold.

After loading the boat the station manager Francis, my wife June, Brian Loyst, Mark Lachaine and Mike Burger slowly headed down river to the village of Tortuguero to meet our guide for a trip into Tortuguero National Park. Our guide introduced himself as "Hunter". After loading up a genuine dugout canoe we found out we had to paddle! As we slowly glided down river to the park entrance, we became quite

good with Hunter at the rear, steering and baling, and also paddling. At the park office dock a \$6.00 (U.S.) fee per person was collected by a ranger before we could proceed into the park. The trip downriver to a small canal was very peaceful with abundant wildlife. Several plumed basilisks darted over fallen logs as we approached, staying still just long enough for photographs. Caimen seemed to be very abundant and we met a local favourite with a missing tail. Hunter explained it had been damaged beyond repair by a boat motor. Someone apparently cut off the damaged section and the released caiman seems none the worse for his surgery (although he looked rather funny when he swam). Monkeys playing in the trees; birds of magnificent plumage all over. What a sight!

About an hour later we arrived at a small inlet that allowed us to tether

the dugout and we took a small well-beaten path into the forest. Hunter's real name, it seems, is Chester Lester Hunter, a Nicaraguan, who fled his homeland during the civil unrest there. He settled in Tortuguero and became a guide. Always smiling and pointing out the local fauna, he seemed to re-

BY MALCOLM ENRIGHT

### There it was — Costa Rican Gold — a brilliant golden yellow eyelash viper

ally know his job. He also knew what we were after and kept leaving the trail to circle small clumps of trees, looking all around, then rejoining the trail. Then it happened. A whistle from Hunter brought the whole group to a large tree and there it was — Costa Rican gold — a

(continued on next page)

## SCHOOL PROGRAM WELL RECEIVED

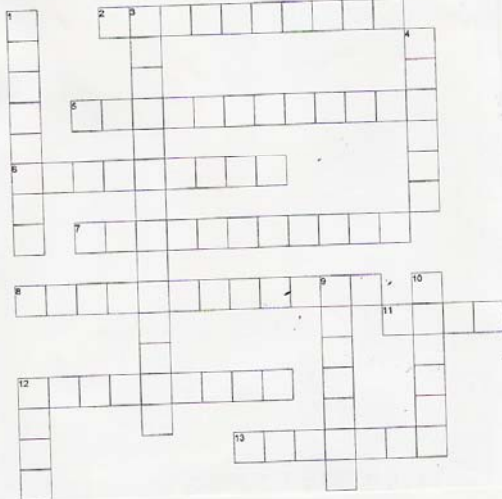
**D**uring the spring term COTERC volunteers continued to make presentations to Toronto and area schools on the subject of rainforest conservation. This is an important part of our overall mandate — educating the next generation so that they will learn to care for the environment.

June Barringham, Jim Williams and Marilyn Cole took on the job of visiting schools talking to students ranging from grade four up to grade 9, and we found that the grade fours were the most attentive and best informed. Those in grade seven and up had apparently not received any prior instruction on the topic in earlier grades, so we felt it was important for them in particular to become

better informed through our program. They were also the most difficult to reach — possibly due to their age where it isn't "cool" to show too much interest in a subject! Since reporting in the last *Raphia*, here is a list of the schools visited:

Montessori School, Ajax - Grade 4/5  
Devins Dr. P.S., Aurora - Grade 2  
Roy H. Crosby P.S., Markham - Grades 1-6 (2 sessions on Environment Day with exhibit)  
F.M. Heard P.S., Whitby - Grade 4 (2 sessions)  
Gandatsetiagon P.S., Pickering - Gr. 4  
Wm. Dunbar P.S., Pickering - Gr. 3/4  
Randall P.S., Markham - Gr. 7 & 8 (2 sessions)  
Mary Immaculate S.S., Richmond Hill - Gr. 7 & 8  
Our Lady of the Annunciation, Richmond Hill - Gr. 4, 5 & 6 (4 sessions)  
St. Vincent de Paul, Markham - Gr. 4-6 & 7-8 (2)  
John Buchan P.S., Scarborough - Gr. 4  
H.G. Bernard P.S., Richmond Hill - Gr. 4, 5 & 6  
We are enthusiastically looking forward to booking programs in the fall.

## Natural Phenomena



### ACROSS

2. shaking of the earth's crust
5. different natural phenomena
6. a mass of snow, earth or rocks sliding down a mountain
7. referring to Americas
8. neotropical primate
11. tree prevalent at Cano Palma
12. violent tropical storm with winds over 73 miles per hour
13. a wearing or washing away of soil

### DOWN

1. violent wind and snow storm
3. bands of light appearing in the night sky, northern lights
4. a spring from which boiling water and steam spew into the air at varying intervals
9. the moon passes between the earth and the sun cutting off sunlight
10. crocodilian
12. frozen rain that occasionally falls during thunderstorms

continued from Page 7

brilliant golden yellow eyelash viper. It appeared to be stuck to the tree trunk about six feet off the ground, attaching itself to the bark and a small vine growing up the trunk. Hunter beamed with pride, as he had guaranteed that he would find us vipers. Cameras with flashes went off from every angle to capture this prize. I noticed Hunter taking out his large machete and marking a tree on the trail (obviously for future tours, as it seems eyelash vipers stay much of the time in small areas), so marking the spot on the trail is a good move for a wildlife guide. By the time we arrived back at the dugout two more vipers were located — a mottled brown one slightly larger than the first and a monster yellow

one with black spots. Again, Hunter marked trees in the immediate area. Several rolls of film later we began the long paddle back to Tortuguero. Every stroke of the paddle seemed to produce sightings of spectacular wildlife. This time we observed an otter disappearing, only to emerge ahead of us, as if he was following the canoe. Upon docking at Tortuguero, our first job was to have some cold refreshments to await our boat to take us back to the station.

Although I hate to fly, the country, scenery and incredible wildlife have definitely convinced me to return to Costa Rica and hopefully encounter more "Costa Rican gold".

### EYELASH VIPER (SCHLEGEL'S VIPER) *BOTHRECHIS (BOTHROPS) schlegeli*

**HABITAT:** shrubbery, vine tangles, trees & palms, usually adjacent to streams and rivers.

**GEOGRAPHIC RANGE:** Southern Mexico, south through Central America to Colombia, Ecuador & western Venezuela

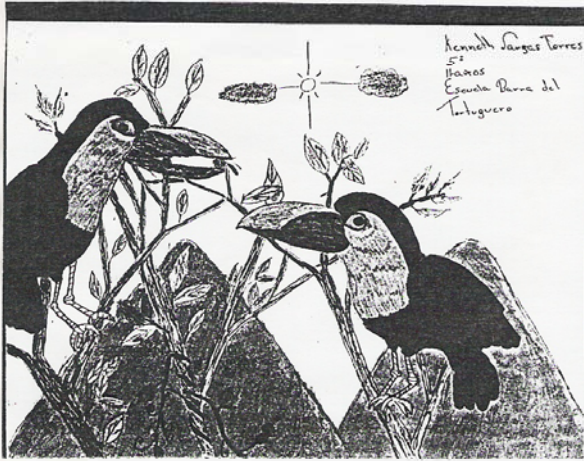
**NATURAL HISTORY:** Easily identified by the presence of several spiny scales above the eyes - hence "eyelash". Quite variable in colour, ranging from solid reddish-yellow, golden or lemon yellow and various shades of grey/brown to green. Twelve or more young born alive and resemble adults in every aspect. Prey on tree frogs and small frogs primarily. Also eat small mammals, lizards, birds and nestlings. Attain 30" in length although average 18 - 24 inches.

**REFERENCES:** Mehrtens, John M., Living Snakes of the World, Sterling Publishing Co. Inc., New York.



# TORTUGUERO ART GALLERY

The education and promotion of rainforest conservation should start with children. They are, after all, our future. They will be the ones who will decide the policies and practices that will affect everyone of us on Earth. To this end, Cano Palma Biological Station has been actively participating in the school program of the young children of Tortuguero. Our Scientific Officer Pat Opat has visited the school to talk to the children and has arranged for educational staff from both the National Museum of Costa Rica and the Simon Bolivar Zoo to participate in symposia at the local school. In addition, Pat and our staff have hosted the children at Cano Palma Biological Station. We wanted to share with you some of the images produced by the children after one such field trip.



## THINGS YOU CAN DO EVERY DAY

- Set your water heater at 130 degrees
- Clean your windows with vinegar & water
- Use cloth napkins, not paper
- Use water saving shower head
- Don't pour hazardous or other chemicals down your drains
- Learn about using natural insects to control pests as an alternative to chemicals & pesticides
- Carpool
- Use phosphate-free soaps for your laundry and dishes
- Compost your yard leaves & trimmings

## WHAT DID YOU SAY?

*The earth makes a resolution every 24 hours*

*Algebra was the wife of Euclid.*

*A right angle is 90 degrees Fahrenheit.*

*Genetics explains why you look like your father and if you don't why you should.*

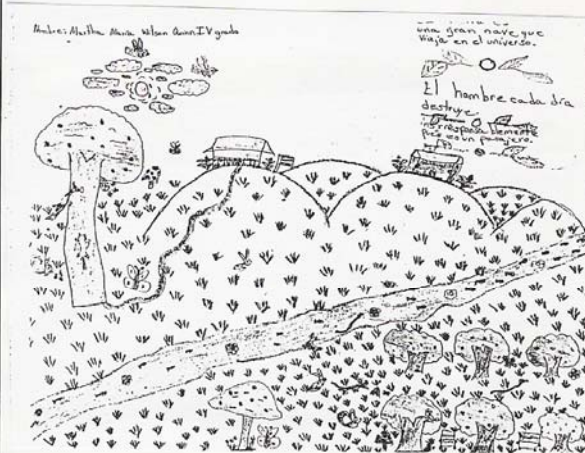
*The pistol of a flower is its only protection against insects.*

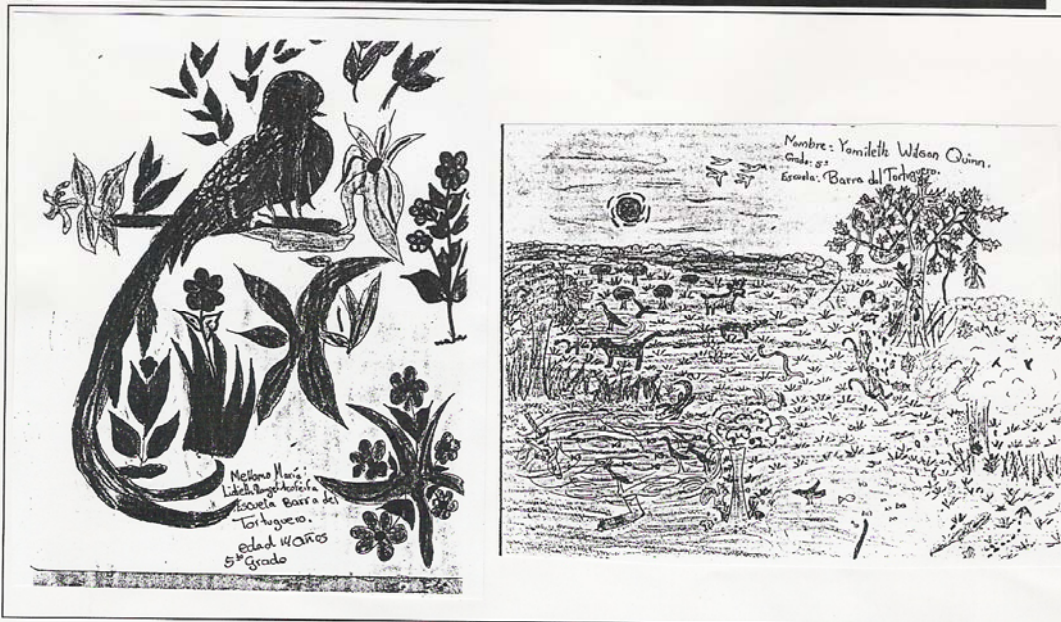
*Respiration is composed of two acts, first inspiration then expectoration.*

*A liter is a nest of young baby animals.*

*The cause of dew is through the earth revolving on its own axis and perspiring freely.*

*Hat lather comes from volcanoes, when it cools it turns into rocks.*





**THANK YOU!**

TO DAYMEN PHOTO  
MARKETING LTD.,  
SCARBOROUGH, ONTARIO  
WHO HAVE DONATED A  
KATADYNE WATER FILTER  
FOR USE AT CANO PALMA  
BIOLOGICAL STATION. THIS  
ADDITION WILL ENSURE A  
HEALTHY, SAFE DRINKING  
WATER SUPPLY FOR VISITORS  
AND STAFF.

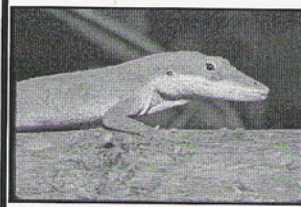
**HATS OFF**

to Butch Beedle (sixth grade teacher) and the students of J.C. Mckenna Middle School, Evansville, Wisconsin who have initiated a newspaper project about tropical rain forests. The Tropical Tribune has been distributed to students and teachers in 50 states and 14 countries. The project has won national awards for its educational and environmental design.

If you would like to support them, a subscription to The Tropical Tribune (which is printed once annually) costs only \$2.00 and can be obtained from J.C. Mckenna Middle School, 307 S. 1st Street, Evansville, WI 53536.

**REPTILE AND AMPHIBIAN LIST NOW AVAILABLE**

Tom Mason and Mike Burger have compiled a list of reptiles and amphibians found in the Tortuguero region. Most observations were made at Cano Palma Biological Station but additional information has been added from the village of Tortuguero, and adjacent areas. For a free copy of this species list, please contact COTERC, Box 335, Pickering, ON L1V 2R6, Canada



# CANADIAN ORGANIZATION FOR TROPICAL EDUCATION AND RAINFOREST CONSERVATION (COTERC)

**PLEASE SHOW YOUR SUPPORT BY FILLING OUT  
THIS MEMBERSHIP FORM**

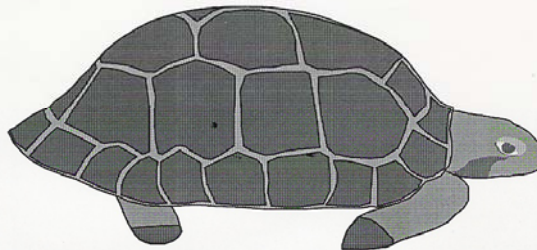
**INDIVIDUAL**                     \$25  
**FAMILY**                         \$35  
**SCHOOL CLASS**               \$25  
**SENIOR/STUDENT**           \$15  
**INTERNATIONAL**             \$50  
**CORPORATE**                 \$100

NAME.....  
 ADDRESS.....  
 CITY.....  
 PROVINCE/STATE.....  
 COUNTRY.....  
 POSTAL  
 CODE.....

DONATION (TAX DEDUCTIBLE) \_\_\_\_\_

PLEASE SEND YOUR CHEQUE AND COMPLETED FORM  
TO:

**COTERC**  
**BOX 335**  
**PICKERING, ON L1V 2R6**  
**CANADA**



**GLOBAL RATES OF DESTRUCTION**

2.47 ACRES (1 HECTARE) PER SECOND: EQUIVALENT TO  
TWO U.S. FOOTBALL FIELDS

150 ACRES (60 HECTARES) PER MINUTE

214,000 ACRES (860,000 HECTARES) PER DAY:  
AN AREA LARGER THAN NEW YORK CITY

78 MILION ACRES (31MILLION HECTARES) PER  
YEAR: AN AREA LARGER THAN POLAND

**SPECIES EXTINCTION**

AN AVERAGE OF 137 SPECIES OF LIFE FORMS ARE DRIVEN  
INTO EXTINCTION EVERY DAY, OR 50,000 EACH YEAR

**CROSSWORD ANSWER**

