



56th Annual Meeting of the Association
for Tropical Biology and Conservation

*Tropical Biology
& Sustainable
Development*

**JULY 30-AUGUST 3
2019**

IVATO INTERNATIONAL
CONFERENCE CENTER
ANTANANARIVO
MADAGASCAR



PROGRAM BOOK

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There are about 150 species of chameleon in the world and half of them are in Madagascar. Three unique kinds of these lizards with independently swivelling eyes are almost entirely endemic to Madagascar: *Brookesia*, *Calumma* and *Furcifer* (19 species).



PRESIDENT AND EXECUTIVE DIRECTORS OF ATBC



Ahimsa CAMPOS-ARCEIZ
ATBC President



Lúcia LOHMANN
ATBC Executive Director



Robin CHAZDON
ATBC Executive Director Emerita

Welcome to the 2019 ATBC meeting in Antananarivo, Madagascar, where a new experience awaits. For over two years, we have been planning this first ATBC meeting held in Madagascar and the first society meeting to be co-hosted by the ATBC Africa Chapter. We eagerly anticipate spending four long and stimulating days full of intellectual excitement, interactions with colleagues, old friends, new collaborators, mentees and mentors amidst the beautiful surroundings that blend culture, history, and nature. If you are new to an ATBC meeting, don't be shy to approach speakers and engage others in conversation and debates. We are sure you will find us a friendly, accessible, and supportive community. If you are a visitor to Madagascar, we hope you take the opportunity to explore at least a small part of this very special biodiversity hotspot, endowed with stunning and diversified natural environments that provide refuge for many species found nowhere else on Earth.

Founded in 1963, the Association for Tropical Biology and Conservation (ATBC) is a membership corporation, international in scope, membership, and objectives, functioning as an international body to foster scientific understanding and conservation of tropical ecosystems by supporting research, collaboration, capacity building, and communication among tropical biologists and conservationists. The ATBC, currently with over 900 members from 64 countries, composes a broad community of tropical biology professionals and provides outlets for research dissemination and educational and funding opportunities, particularly for early career scientists working across the tropics. As a diverse community of science professionals, the ATBC provides a credible, collective, and authoritative vision of tropical biology and conservation issues that underpin public policy and management action. Our journal, *Biotropica*, freely provided to all members, is the leading international journal on tropical biology, and publishes six issues per year on-line.

In addition to the Africa Chapter, the Asia-Pacific Chapter, Neotropical Chapter and Student and Early Career Scientist Chapters, new Climate Change Thematic Group provide many outlets for collaboration, communication, and regional networking. The ATBC also offers a Mentoring program, Skills Workshops, and Webinars. Be sure to check the program for our lunch-time professional development sessions during the conference. The Conservation Chapter works actively to focus on important issues where ATBC resolutions and declarations can have an impact on decision making and mobilizing conservation actions around the tropics. We offer many ways to become involved.

ATBC provides tiered membership options for students and regular members regardless of economic status, and provides a limited number of travel grants to annual meetings. We aim to be supportive, inclusive, participatory, transparent, and multidisciplinary in all of our activities and events. We have worked hard to support participation of Malagasy and African students, researchers, and practitioners in this conference.

Please join our family to receive the maximum benefits of our global society. We are always looking for more ways to engage members and provide support for research, networking and communications activities in tropical biology and conservation. If you would like to get more involved in ATBC, please do approach us or any other members of Council – we're always happy to have a chat.

Please visit our website for more information (<http://tropicalbiology.org>) as well as our Facebook pages ATBC and Tropical Biology and Conservation Forum) and Twitter feed (@tropicbiocon)

Enjoy your week at this wonderful meeting and beautiful location!





CHAIR and CO-CHAIRS OF ATBC 2019

CHAIR



Hajanirina
RAKOTOMANANA

Dear Colleagues and Friends,

On behalf of the Local Organizing Committee, I am delighted to welcome you to Madagascar and the 56th annual meeting of the Association of Tropical Biology and Conservation (ATBC).

Thank you for having made the choice to come to this meeting, and in this manner bringing attention towards Madagascar's economic and political leaders. It is of critical importance for the nation to protect the island's extraordinary fauna and flora as the magnitude of the problem is immense. We sincerely hope that you will take this occasion to visit different protected areas on the island, which for many of you will be a once in a lifetime experience on one of the world's biodiversity "hotspots." Madagascar indeed boasts a spectacular and fascinating biota, such as the world famous lemurs, a wide range of endemic animals, and something approaching 15,000 vascular plants.

CO-CHAIRS



Jonah
RATSIMBAZAFY

Many participants from various countries across our Planet and different disciplines are gathered for this conference. We hope that you all enjoy the conference program and we are very pleased to welcome you to the meeting. Some of the projected outcomes are the advancement of the ATBC Africa Chapter and an important message to our nation's leaders, civil society, private sector, and the public that is encapsulated in the Ivato Petition – if you have not yet signed the petition, please see the ATBC 2019 website and consider being part of this important statement.



Steven M.
GOODMAN

.For the coming few days, we will share our experiences, learn from the experiences of participants, and advance awareness of tropical forests and their conservation. I am looking forward to an excellent meeting and a range of different exchanges between young and more experienced students and well-established researchers during this meeting. Finally, I will take this opportunity to thank all of my colleagues for making this meeting possible.



Elisabeth
RABAKONANDRIANINA

Please enjoy your stay in Madagascar!!



**DEAN OF THE FACULTY OF SCIENCE AND
PRESIDENT OF THE UNIVERSITY OF ANTANANARIVO**

Irrish Parker RAMAHAZOSOA
Dean of the Faculty of Science



Mamy Raoul RAVELOMANANA
President of the University of Antananarivo

Manahoana tompoko and greetings,

On behalf of the Faculty of Science, University of Antananarivo, we would like to welcome you to the 56th ATBC annual meeting. It has been a long time that we have been waiting for this opportunity. Therefore, we are very proud to host this important international event, which is expected to change the views at different levels of Madagascar's conservation programs. The University of Antananarivo, particularly the Faculty of Science, has played an important role in education and scientific research in order to advance programs to minimize the loss of biodiversity. Our objective is to ensure that science is appropriately used in order to support sustainable conservation and to advance the worldview of this island nation. The University of Antananarivo, through its Faculty of Science, has the honor of hosting ATBC 2019, which covers a wide range of subjects, enables the exchange of ideas between the participants, and expands the national network with leading environmental scientists and conservationists.

Madagascar is a continent Island where you can find different types of climate and a diverse range of different associated habitats. We believe that this conference will highlight the beauty of our flora and fauna. Please take this opportunity while visiting the island to explore the magnificence and natural richness of our country. We think that the theme "Tropical biology and sustainable development" is very appropriate to current international conservation issues, including on Madagascar. Finally, we thank the Organizing Committee Members for their tremendous efforts and attention to many fine details in putting together the informative conference program, including plenary lectures, symposia, workshops, poster presentations, and events for participants from all over the world. We congratulate your efforts and our best wishes go to presenters.

Thank you for being part of the Conference.





ORGANIZING COMMITTEE

CHAIR Hajanirina RAKOTOMANANA
University of Antananarivo, Madagascar

CO-CHAIRS **Logistic Component**
Jonah RATSIMBAZAFY
University of Antananarivo, Madagascar

Academic Component
Steven M. GOODMAN
*Vahatra Association, Antananarivo, Madagascar,
and Field Museum of Natural History, Chicago, USA*

Socio-cultural Component
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Mathew Charles FORTH

Tendro RADANIELINA

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Misa RASOLOZAKA

Rija Sylvain RAKOTOSOA

Nicole RAZAFIMANANTSOA





ATBC 2019 PROFESSIONAL CONGRESS ORGANIZER (PCO)



Media Consulting has more than 20 years of experience in the fields of events and communication.

Twenty or so qualified and well-honed employees, each with complimentary expertise have organized since 1997 some 300 events (trade shows, fairs, shows, conferences). Overall, these events have been deemed as considerable successes and certain produced on an annual basis. The Media Consulting touch remains an indelible and recognizable hallmark.

Media Consulting is not only a creative event organizer, but also a Communication Agency, in the broadest sense of the term, known and recognized across Madagascar, in the region, and even on a larger scale. Media Consulting has built its good reputation on events and communications that based on its professionalism, creativity, and imagination encapsulate the needs of the business world. Media Consulting is currently the only company on Madagascar with such specialization, combining communications and events. Hence, its motto that sums up quite well the company's perspective and realistic ambitions, «Turnkey communication, tailor-made event». Needless to say, for the realization of its activities, Media Consulting works in close collaboration with a range of professionals associated with events, as well as the media, radio and television stations, press, and social networks.





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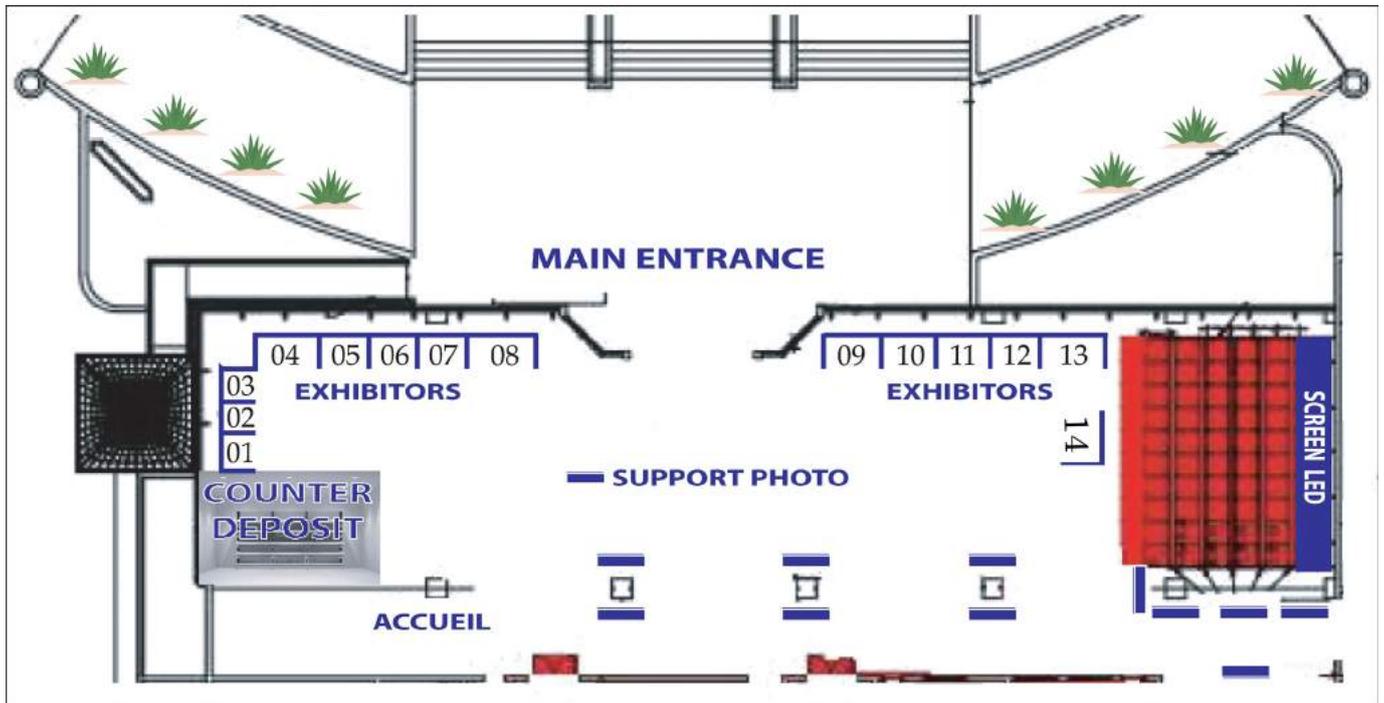
PARTNERS



EXHIBITORS



EXHIBITION FLOORPLAN



EXHIBITION TIMES

- 30 July, 9:00 am – 5:00 pm
- 31 July, 9:00 am – 5:00 pm
- 1 August, 9:00 am – 5:00 pm
- 2 August, 9:00 am – 5:00 pm
- 3 August, 9:00 am – 5:00 pm





GENERAL INFORMATION

ABOUT THE EVENT

The ATBC is an international entity that promotes research, education, conservation, and communication in the field of tropical biology. To this end, annual meetings are organized with diverse academic institutions in different countries of the globe, representing various cultures and environmental settings.

ATBC MEMBERSHIP

As a member you will:

- benefit preferential prices to register at the ATBC annual meetings
- be allowed 10 free published pages in BIOTROPICA annually
- get access to member-only conference registration rates
- be eligible for presentation awards during annual meetings
- be eligible for travel grants to assist to annual meetings
- have a webpage for your field site promoted at tropicabio.org
- have your BIOTROPICA paper highlighted on our FaceBook page

For more information please visit Wiley or email cs-membership@wiley.com

ATBC SOCIAL NETWORKS

ATBC: <https://tropicalbiology.org/>

ATBC 2019: <https://www.atbc2019.org/>

[www.facebook.com/ TropicalBiologyConservation](http://www.facebook.com/TropicalBiologyConservation)

www.facebook.com/atbc2018

www.twitter.com/atbc2018

www.twitter.com/tropicbiocon

ATBC Europe Group

ATBC. SECSCI (Student and Early Career Scientist Chapter)

[www.facebook.com/ groups/806472452717639/](http://www.facebook.com/groups/806472452717639/)

[www.facebook.com/ groups/1429717710644455/](http://www.facebook.com/groups/1429717710644455/)

ATBC Africa Chapter

www.facebook.com/groups/1606854326244847/

AWARDS

BACARDI AWARD

The Bacardi Award is open to those who have received a PhD, within 5 years of the meeting dates. To be eligible for the Bacardi Award, an applicant must be a non-student member for 2019. For more information on the award, please see www.tropicalbiology.org/luis-f-bacardi-award/

ALWYN GENTRY AWARD

The Alwyn Gentry Award is presented to a student presenter (one each – oral or poster). Minimum qualification is to be a paying student member of the ATBC for 2019. For details of the award, please see www.tropicalbiology.org/alwyn-gentry-award/





GENERAL INFORMATION FOR PARTICIPANTS

ONSITE REGISTRATION COUNTER

The registration counter is located at the main hall of the Ivato International Conference Center (CCI Ivato)

OPENING HOURS

- 30 July, 8:00 am – 4:30 pm
- 31 July, 8:00 am – 7:30 pm
- 1 August, 8:00 am – 7:30 pm
- 2 August, 8:00 am – 8:30 am
- 3 August, 8:00 am – 8:30 am

BADGES & WELCOME KIT

For identification and security purposes, registered delegates must wear their badges at all times during the ATBC conference and in a clearly visible place. After checking-in at the registration counter, participants can proceed to the Welcome Desk to get your welcome kit, which includes congress program, congress abstract book loaded on a thumb drive, and other goodies ...

CATERING SERVICES

Tea/coffee and lunches will be served during the designated refreshment breaks. If you have a specific dietary requirement that you have informed us, then please ask a waiter for your food. Absolutely no pork products or pork derived products will be served.

Our catering service is provided by Yuhanna and Vivien Traiteurs and with full registration fees paid includes:

• Coffee breaks:

Coffee breaks will be in the CCI Ivato Quartz Room

- 31 July, 9:30 am – 10:00 am, 5:00 pm – 5:30 pm
- 1 August, 9:30 am – 10:00 am, 4:00 pm – 5:00 pm
- 2 August, 9:30 am – 10:00 am, 4:00 pm – 5:00 pm
- 3 August, 9:30 am – 10:00 am, 4:00 pm – 5:00 pm

• Lunch:

A buffet lunch will be served in the Lunch Room at CCI Ivato from 12:00 - 2:00 pm each day from 31 July – 3 August 2019. For those taking part in lunch time workshops and other sorts of meetings in portions of the CCI Ivato not in the Lunch room, we request that all dishes, cutlery, glasses, etc. be returned to the Lunch Room immediately the meal.

WELCOME & CONFERENCE OPENING

30 July: 5:00 pm - 5:30 pm at the auditorium in CCI Ivato. This is the period that different authorities, as well as the the ATBC 2019 president and ATBC director, will make opening speeches.

CLOSING CEREMONY

3 August: 5:30 pm - 7:00 pm at the auditorium in CCI Ivato.





UPLOADING ORAL PRESENTATIONS

Speaker presentation uploading and preview room is located in the Secretary room at CCI Ivato and the hours of operation during the ATBC conference are:

- 30 July, 12:00 pm – 6:00 pm
- 31 July, 7:30 am – 7:00 pm
- 1 August, 7:30 am – 7:00 pm
- 2 August, 7:30 am – 7:00 pm
- 3 August, 7:30 am – 7:00 pm

In order to assure a clear and simple unfolding of the conference, all speakers, including plenary and general oral presentations, symposia, workshops (when appropriate), etc. need to follow the following steps:

1. Must upload presentation, best as powerpoint file, in the Speaker Preview room one day before the scheduled presentation and during the open hours given above. A staff member will be present to assist in uploading the presentation as needed.
2. Audio-visual testing facilities are available in the Speaker Preview room. The staff will assist you in verifying that your presentation was successfully uploaded and all is in order.
3. Please be present at your session room at least 15 minutes before the start of the session.
4. In each presentation room there will be the following equipment:
 - Laptop
 - Projector with screen
 - Standard PA system with microphone.

FOR CHAIRPERSONS

- Please be present in your session room at least 15 minutes before the start of the session and become familiar with the different speakers.
- Chairperson guidelines on how to manage a session will be sent in a separate email about one week before the start of the conference.
- The period for each presentation is a firm 15 minutes with 12 minutes of presentation and 3 minutes of Questions & Answers. During the presentation, chairpersons are required to act as timekeepers by ringing the bell on 8 minutes (1st reminder), 10 minutes (second reminder) and 12 minutes (to complete the oral portion of the presentation), and then move on to a maximum of three minutes for questions (session end).

LUNCH TIME WORKSHOPS

Lunch time workshops will be held on various days of the conference from 12:00 to 2:00 pm. For those assisting lunch time workshops, please pick up your lunch in the Quartz room, take part in the workshop, and return the dishes and eating utensils to the lunchroom.

PLENARY LECTURES

All Plenary lectures will be delivered in the Auditorium. Questions can be asked via Twitter with the conference hashtag **#ATBC2019**.





WIFI

Free internet is provided with no cost. The password is SSID: **ATBC2019** PASSWORD: **56th_2019**

E-CERTIFICATE OF ATTENDANCE

E-certificate of attendance will be emailed to all registered delegates after the conference and before 15 August. The issuing of these certificates will be based on the completion of the conference e-evaluation form.

CHILDCARE

Childcare is available at the Conference Center and details are available on the ATBC 2019 website under Travel Information – Childcare service. We are working with “Le Nidou” childcare group.

ELECTRICITY VOLTAGE

For electric devices purchased in the United States and other countries with 110-120 volt electricity, a converter and plug adapter are needed if the appliance does not have dual voltage. Volt electricity with 220-240 (such as Australia, Europe, and the UK) only a plug adapter will be required.

TELEPHONE

The international telephone code for Madagascar is **+261**.

TAXI

For moving around Tana, it is possible to take city buses or taxis.

Official taxis are beige and have a sign on the car roof. Taxis do not have meters, you should agree on the price before getting in. Fares start at 5,000 Ar depending where you are going. Night fares are more expensive. At the airport there are also official white taxis (taxi agréé) that can be used for transport to hotels in town (about 25 km from the airport to the center of town), and prices are fixed. Recently the price was 60,000 Ar for a one-way trip into town.

We recommend to all participants arriving at Ivato airport to take approved taxis. These are white cars with a “Taxi agréé” sign on the roof of the car. The drivers will have a card with fixed rates, depending on your destination, and no need to barter prices. More information will be available at the information desk in Ivato airport.

SHUTTLE

It is important to mention that the main roads in Antananarivo have heavy traffic during the day, often forming major traffic jams, particularly during rush hour periods from 7:30 - 9:30 a.m. and from 3:30 – 7:30 p.m. Hence, best to consider this aspect when planning travel across the city.

Shuttles will be available during the conference. Pick-up locations are as follows:

- Ambanidia Poste (roundabout) (6:30 am)
- Akorondrano : Ibis Hotel (07:00 am)
- Jardin Antaninarenina (6:30 am)
- Talatamaty roundabout (Galana Gas Station) (07:30 am)
- Anosy : Carlton Hotel (6:30 am)
- Pharmacie Ambohibao (07:30 am)
- Analakely : Hotel de Ville (6:30 am)





INSURANCE AND LIABILITY

It is recommended that participants arrange their own personal health, accident and travel insurance. The meeting organisers will not accept liability for personal injury or loss/damage to property/belongings of participants or accompanying persons, before, during or following the meeting, on tours or during your stay in Antananarivo.

FIRST AID NUMBER

SOS Medecin Madagascar phone number : **+261 34 64 768 00**

Police GIR National phone number : **+261 34 05 517 22**

Fire and rescue phone number: **18** or **118**

SECURITY

In general, most neighborhoods of Antananarivo have few security issues, but here are a few pointers that we suggest you follow.

- Best to keep your important possessions (passport, valuables, etc.) in the hotel lock box.
- During the day at the conference center it is not needed to carry your passport, but it is suggested that you make a photocopy of the passport cover page and entry visa and keep this with you.
- If you go into town in the evening, particularly if you will be late in entering your hotel, best to carry your passport.
- At the CCI Ivato keep all of your personal possessions with you at all times, including notebooks and computers. There have been some thefts at the center in the past and although security guards will be engaged, no need to take any risk.

FOREIGNER CURRENCY

At the airport there are several banks and foreign exchange service companies to change money. Please use these services for at least your expenditures the first day or second day after arriving in Antananarivo. These services will be available for late arriving flights (Air France). The local currency is Malagasy Ariary (MGA) and as of early July 2019, \$10 (US) was about 36,000 MGA and 10 Euros about 40,600 MGA. A couple of points to mention:

- It is illegal to exchange foreign currency on the black market. We strongly recommend not doing this.
- Gauge anticipated expenditures, as upon leaving Madagascar it is difficult to exchange MGA back into foreign currency or at a not particularly interesting exchange rate.
- Many hotels have foreign exchange services and can be used to replenish local currency needs.
- Certain vendors, for example those selling local crafts or books at CCI Ivato, except foreign currency. Change may be given back in local currency.

ONLINE PROGRAM

To view the ATBC 2019 program online click on <https://www.xcdsystem.com/atbc/program/MLpmKXQ/index.cfm>





SOCIAL PROGRAM

WELCOME COCKTAIL

Date: 31 July

Time: 7:00 – 10:00 pm

Venue: Lunch room, Ivato International Conference Center (CCI Ivato)

Dress code: Tropical casual

ATBC 2019 BANQUET

Date: 3 August

Time: 7:00 – 10:00 pm

Venue: Lunch room, Ivato International Conference Center (CCI Ivato)

Dress code: Tropical casual

POST-CONGRESS FIELD TRIPS

ATBC 2019 post-congress field trips are organized in collaboration with the Madagascar Tour Operators Association (TOP). For all details, associated with post-congress trips, please consult <https://www.atbc2019.org/atbc-2019-field-trips>

FILMING

We will be filming and taking photographs throughout the conference, which we might share on social media, online and in the organising committees' member magazines. If you would prefer not to be included in these, please contact Misa Rasolozaka in the registration area.

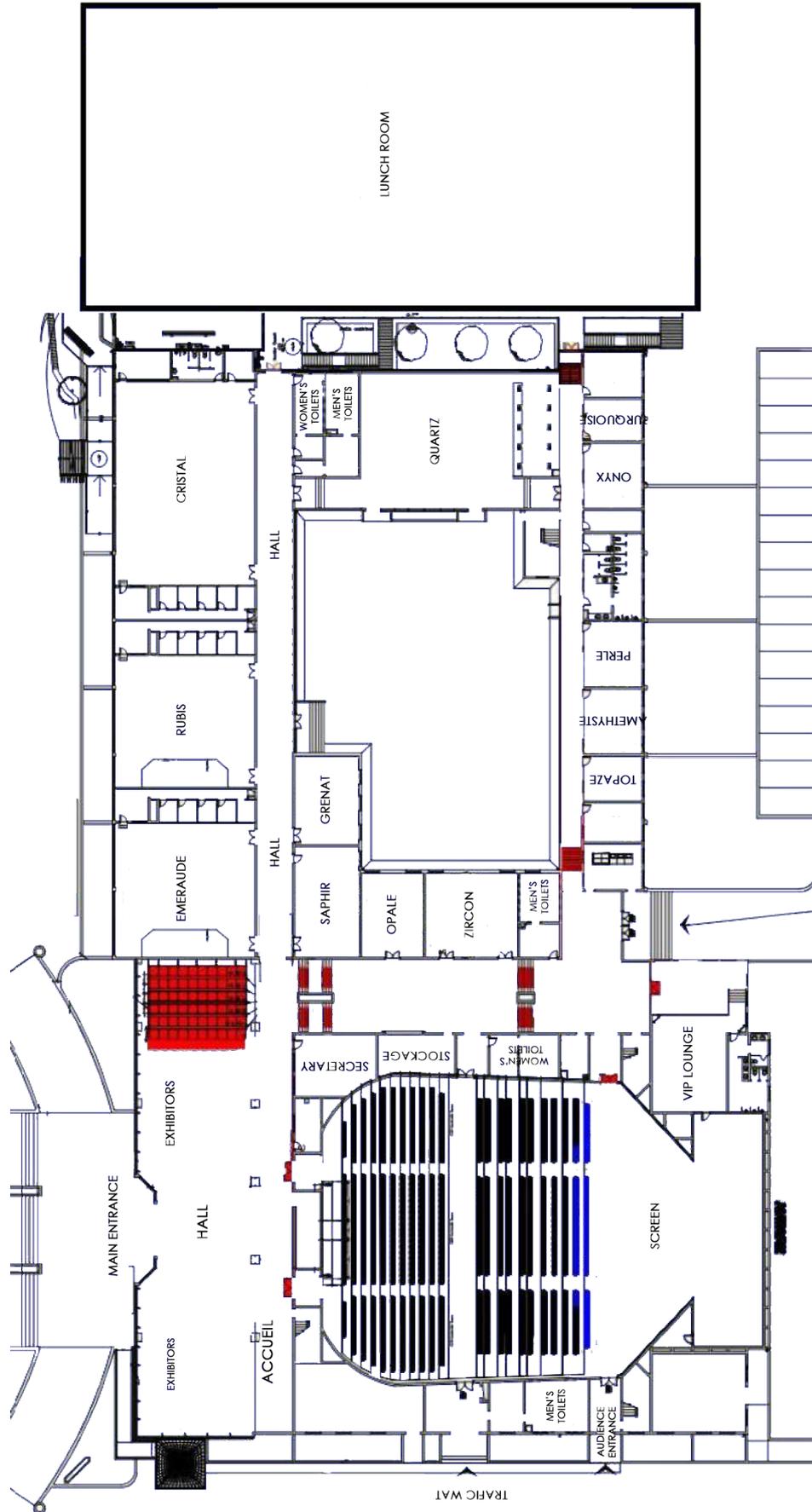




Map of CCI Ivato ATBC 2019 venue



Map of CCI Ivato ATBC 2019 venue





Program at a Glance

TIME	Tuesday, 30 July	Wednesday, 31 July	Thursday, 1 August	Friday, 2 August	Saturday, 3 August	Sunday, 4 August
08:00	Pre-conference workshops	ARRIVAL	REGISTRATION	REGISTRATION	REGISTRATION	Post-conference workshops
08:30			08:30-9:30 Plenary session 2	8:30-9:30 Plenary session 4	8:30-9:30 Plenary session 5	
09:00		9:30-10:00 COFFEE BREAK	9:30-10:00 COFFEE BREAK	9:30-10:00 COFFEE BREAK	9:30-10:00 COFFEE BREAK	Day of Adventure
09:30		10:00-12:00 Symposia	10:00-12:00 Symposia	10:00-12:00 Oral Presentations	10:00-12:00 Oral Presentations	
10:00		12:00-2:00 Lunch + Group Discussion - 2nd Edition, The Natural History of Madagascar	12:00-2:00 pm Lunch & Workshops	12:00-2:00 pm Lunch & Workshops	12:00-2:00 pm Lunch & Workshops	12:00-2:00 pm Lunch & Workshops
10:30						
11:00		3:00-5:00 pm Oral Presentations	4:00 - 5:00 pm COFFEE BREAK	4:00 - 5:00 pm COFFEE BREAK	4:00 - 5:00 pm COFFEE BREAK	4:00 - 5:00 pm COFFEE BREAK
11:30						
12:00		5:00 - 6:30 pm Poster Session	5:00-6:30 pm Poster Session	5:00-6:30 pm Poster Session	Presentation by current ATBC President & Closing Ceremony	
12:30		ATBC Open Forum	Panel Discussion and Biotropica session	Panel Discussion & Cascoland Dinner	ATBC BANQUET	
01:00	REGISTRATION				Rufford Training Session Dinner	
01:30						
02:00						
02:30						
03:00						
03:30						
04:00						
04:30						
05:00	WELCOME & OPENING CONFERENCE					
05:30	5:30 - 6:30 pm Plenary session 1					
06:00						
06:30						
07:00	WELCOME COCKTAIL					
07:30						
08:00						
09:30						
09:00						
09:30						
10:00						





Scientific Program

Times	Tuesday, July 30	Room
8:00 am 4:00 pm	WORKSHOP 01: How to get your paper published: skills for writing papers and the journey to publication	Emeraude
1:00 pm 4:30 pm	REGISTRATION	Hall
1:00 am 4:30pm	WORKSHOP 02 Ecological and Epidemiological Mini Modeling in Madagascar	Grenat
2:00 pm 4:30 pm	WORKSHOP 10 Mentoring Circle meeting	Rubis
5:00 pm 5:30 pm	WELCOME & CONFERENCE OPENING	Auditorium
5:30 am 6 :30 pm	KEYNOTE LECTURE 01: The history, current status, and future of the protected areas of Madagascar Steven M. GOODMAN	Auditorium
6 :30 am 10:00 pm	WELCOME COCKTAIL	Lunch room



Time	Wednesday, July 31								
	Auditorium	Cristall	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
8:30 am 7:30 pm	REGISTRATION								
8:30 am 9:30 am	KEYNOTE LECTURE 02: Conservation in the remote western Amazon: A natural history museum putting science into the hands of decision-makers (Auditorium) Corine VRIESENDORP								
9:30 am 10:00 am	COFFEE BREAK								
10:00 am 12:00 pm	Symposium 01-1	Symposium 06-1	Symposium 18-1	Symposium 03	Symposium 04	Symposium 17-1	Symposium 5	Symposium 14	Symposium 16
	Seed dispersal ecology in Madagascar's forest: advance and future directions	Monitoring the forest cover: tools for managing natural resources	Bridging the divide: understanding tropical grassy biomes across Africa and Madagascar	Role Entomological surveys and systematics for conservation action in the	Functional responses to changing environments	Synthesizing camera trapping data for tropical ecology and conservation	Restoration of Tropical Forests: lessons from Madagascar and beyond	Ecosystem Conservation Through Bio-cultural Conservation Approaches	Mangroves: a highly valuable ecosystem for the sustainable development of coastal areas in Madagascar
10:05 am	The undervalued seed dispersers of Madagascar's rainforests: Birds contribute to fruit removal as much as lemurs	Remote sensing in support of conservation monitoring and planning	Manisa bozaka: Counting the grasses of Madagascar	Uncovering the endemic biodiversity of assassin bugs of Madagascar (Hemiptera: Reduviidae)	Traits shape the drought survival and tree species distribution along a rainfall gradient in Ghana	Synthesizing camera trapping data for tropical ecology and conservation: symposium introductory talk	Forest cover in Madagascar: Past, present and future	Biocultural conservation through the sacred forests of India, Ghana, and Sierra Leone	Community Based Mangrove Management in the Western part of Madagascar
	Nancia RAOELIN-JANAKOLONA	Andriamandimbi-soa RAZAFIMPAHANANA	Maria VORONTSOVA	Christiane WEIRAUCH	Lucy AMISSAH	Francesco ROVERO	Ghislain VIELLEDENT	Alison ORMSBY	Judicael RAKOTONDRAZAFY
10:39 am	Examining spatially explicit networks of individual plant interactions with a frugivorous lemur mutualist (<i>Eulemur rubriventer</i>)	GLAD, an opportunity to refine Madagascar National Park's current strategy to combat illegal deforestation in remote protected areas	The assembly of the African grass flora and how this relates to grass invasions, including "invasions" of other biomes	Impact of degradation and restoration of native forest on endemic crickets and bush crickets: Use of surveys, taxonomy, and acoustic monitoring	Effects of topography on tropical forest structure depend on climate context		Tropical rainforest assembly: Evolution, ecology, and biogeography	Cocoon-silk enterprise: Farming, collecting, and transformation of endemic silk to generate income and support local biodiversity	Community-led mangrove carbon project, an incentivized approach for sustainable mangrove management
	Jadelys TONOS	Guy RAMANGASON	Vernon VISSER	Sylvain HUGEL	Jess ZIMMERMAN		Robert KOOYMAN	Mamy RATSIMBAZAFY	Aigrette RAVAOARINOROT-SIHOARANA
10:39 am	Importance of wind-dispersal in the invasion success of <i>Pinus kesiya</i> in Tapia forests in Madagascar	Innovation and ground work needed to save the central Menabe, the threatened hotspot of western Madagascar	GBIF Poaceae data mobilisation and the Madagascar grass atlas	Lepidopteran fauna on Réunion Island: Link with the quality of habitats and its evolution for 30 years	Ontogeny, light, and topography shape leaf functional trait values of individuals in Neotropical tree species complexes	Community composition of tropical forest mammals in relation to management regimes	Mining companies as potential leaders in Malagasy forest restoration	Use, conservation, and harvesting techniques of medicinal plants by the Ogiek of East Mau Forest, Nakuru District, Kenya	Enhancing mangrove governance through carbon financing: A case study of Mikoko Pamoja project
	Herimino Manoa RAJAONARIVELO	Herizo ANDRIANAN-DRASANA	Linh RABARIVOLA	Jacques ROCHAT	Sylvain SCHMITT	Valentina OBEROSLER	Chris BIRKINSHAW	Fidensio NDEGWA	Anne KAMAU

Time	Wednesday, July 31								
	Auditorium	Cristal	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
10:56 am	Animal-mediated spread of the invasive strawberry guava (<i>Psidium cattleianum</i>) in Madagascar	Comparing global and national approaches to estimating deforestation rates in REDD+ countries	Poaceae checklist of the Isalo National Park	Overlooking the obvious - Understanding the diversity and impact of minute parasitic wasps	Horizontal and vertical light gradients shape demographic strategies of tree species in a moist tropical forest	Conservation of bird and carnivore species of Ranomafana National Park, Madagascar: Monitoring environmental and climatic change through camera trapping	Linking science to applied restoration: The Ambatovy project as an example	Attitudes of homestay operators near Bardia National Park, Nepal	Cyperaceae and Poaceae weeds studies in the Itasy Region, Central Highlands of Madagascar
	Camille DESISTO	David GIBBS	Nantenaina Herizo RAKOTOMALALA	John HERATY	Nadja RÜGER	Jean Claude RAZA-FIMAHAIMODISON	Josia RAZAFINDRAMANANA	Alison ORMSBY	Fenitriinaia Judith Elyna MAHITASOA
11:13 am	The effectiveness of extinct versus extant animals as seed dispersers of Malagasy baobabs	Adapting the percentage of canopy cover to best reflect the diversity of forests in Madagascar	National Herbarium in Pretoria and the Poaceae collections for the Flora of Southern Africa	The globally outstanding biodiversity in the UNESCO world heritage site Rainforests of Atsinanana: Discovering three new branches of the diving beetle tree of life	A continuum of assembly rules shapes trait diversity in lowland Amazonian forests	Occupancy and habitat use of terrestrial vertebrates in the Virunga Massif, Rwanda-Uganda	Tree survival after wildfire in a rainforest restoration project in NE Madagascar		Towards the establishment of an integrated management strategy to address a complex multifunctional Mangrove resource governance
	Seheno ANDRIANT-SARALAZA	Serge RAFANOHA-RANA	Lyn FISH	Johannes BERGSTEN	Claire FORTUNEL	Eustrate UZABAHO	Matt HILL		Ny Aina ANDRIANARIVELO
11:30 am		Using near-real-time satellite alerts to support journalists reporting on forests	Origins and diversification of Cyperaceae in Madagascar	Why are entomologists sitting on the conservation sidelines? Insects and People (IPSIO.org): efforts to end the silence on habitat loss in Madagascar			The tricky art of selecting reference ecosystems to guide restoration of a uranium mine in a World Heritage Area		
		Willie SHUBERT	Isabel LARRIDON	Brian FISHER			Peter ERSKINE		
12:00 pm 2:00 pm	2nd Edition, The Natural History of Madagascar (Lunch room)								
12:00 pm 2:00 pm	Journalist workshop								
2:00 pm 3:00 pm	KEYNOTE LECTURE 03: From food chemistry to the evolution of primate communities: historical perspective, progresses, gaps and new approaches (Auditorium) Joerg GANZHORN								

Time	Wednesday, July 31								
	Auditorium	Cristall	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
	GS03	GS02	GS09	GS01	GS05	GS04	GS06	GS07	GS08
3:00 pm 5:00 pm	Threats, Pressures and Sustainable Developpement	Ecosystem Functions and Services	Threats, Pressures and Sustainable Developpement	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Other	Ecosystem Functions and Services	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Tropical Biodiversity, Socio-economic and Cultural Dimensions	Tropical Biodiversity and Global Changes
3:02 pm	Improving data quality for better biodiversity management	Restoring ecosystem function and services in the Panama Canal watershed	Adaptation to aridity may buffer Endangered zebra from parasite exposure risk in new habitat	Effect of physical habitat features at multiple scales in the occupation area of an endangered salamander: <i>Ambystoma ordinarium</i> (Caudata: Ambystomatidae)	Environmental influences on geographic variations in body size in Greater Gliders (<i>Petauroides volans</i>)	Dynamics of treefall gaps in an Upper Amazonian floodplain forest	The first comprehensive study of insect body size for a complete elevational gradient in the tropics reveals a striking pattern	Conservation efforts surrounding tropical agriculture cause unanticipated land-use changes	Increase in functional diversity in drier climate conditions can buffer reduction in Amazon forest carbon stock
	Rivolala ANDRIAMPARANY	Jefferson HALL	Kaia TOMBAK	Ileri SUAZO-ORTUÑO	Denise MCGREGOR	John TERBORGH	Robert COLWELL	Felix LIM	Bianca RIUS
3:18 pm	Pressures and threats for the eastern forests of Madagascar: Case of the new protected area of Ambohidray	Forest cover and temporal resource availability driving avian-cross habitat spillover into Brazilian sun coffee farms	Spatial and temporal dynamics of a parasite and hyperparasite interaction on coffee	Mammal distribution implications of nocturnal and diurnal thermoregulation	Inaturalist: Rescuing Madagascar plants with new technology	How does defaunation influence gene flow and spatial genetic structure in a hyperabundant animal-dispersed Neotropical palm?	Unveiling the origins of the endemic caifauna of the Caatinga Dry Forest	Perceptions of wildlife	Wild edible plants in Vohibe Forest, in Ambalabe community, Madagascar
	Toussaint RABARY	Andrea BOESING	Beyene ZEWDIE HAILU	Elspeth WILMAN	David RABEHEVITRA	Amy DUNHAM	Luciano NAKA	Leandra MERZ	Nivo H. RAKOTOARIVELO
3:34 pm	Determinants of deforestation and prediction of future forest loss in remote and rural northeastern Madagascar	Ecosystem natural capital accounting in the new protected area (PA) of the complex Mahavavy-Kinkony (CMK) - Boeny Region: carbon of mangrove account	Patterns and drivers of a fungal disease community on Arabica coffee: From native forest to intensively managed plantations	Community dynamics in stochastic environments and implications for biodiversity conservation	Study of transport efficiency of an Indian ant in the natural terrain	Same frugivore, different seed fate: The case of howler monkeys and large-seeded trees	Prioritizing area using genomic approach for a long term conservation of black lemurs population	Using local actors' perceptions to evaluate a conservation tool: The case of the Mexican compensation scheme for depredation in Calakmul	Are tropical montane forests at risk of drought? Quantifying the vulnerability and resilience of tree species to changing water availability in the face of climate change
		Maholifiana RAVOLOLONIRINA	Ayco TACK	Tanjona RAMIADANTSOA	Karunakaran ANOOP	Julieta Benitez MALVIDO	Fanomezana RATSOAVINA	Sophie CALME	Roxanne CRUZ DE HOYOS
3:50 pm	Community based conservation of threatened wild yams in Madagascar	Climate changes, threats to the Ecosystem Service provision and their relationships to socio-environmental vulnerability: A study in contrasting landscapes of Brazil	Babesial infection in the Malagasy flying fox, <i>Pteropus rufus</i> E. Geoffroy, 1803	Spatial distribution of different vegetation types of Andohahela National Park, southeastern Madagascar	Direct interactions between mammalian and insect herbivores: Mechanisms and implications	Functional diversity of bird and bat communities are similarly related to abiotic and biotic drivers on Mount Kilimanjaro	Plant diversity and structure of Analandramanavy remaining forest of Soavinandriana District, Itasy Region, Madagascar	Strategic plan for tourism development, a tool for biodiversity conservation	Effects of ENSO and tropical cyclones on the flower and seed production in a subtropical rain forest
	Mamy Tiana RAJAONAH	Moara Almeida CANOVA	Hafaliana Christian RANAIVOSON	Tahiana AN-DRIAHARIMALALA	Moshe INBAR	Robert Modest BYAMUNGU	Nivo RAZAFIMAMONJY	Lea RAZANAMARIA	Chia-Hao CHANG-YANG

Wednesday, July 31									
Time	Auditorium	Cristall	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
4:06 pm	"Green List" assessment of freshwater turtles reveals priorities for community-based pan-Amazonian conservation success	Challenges in quantifying carbon stock in above ground and below ground biomass and in soil sediments of mangroves in NW Madagascar	Distribution of stem gall disease in <i>Rhizophora</i> mangle as determined by citizen science efforts in Tampa Bay, Florida	Radial and vertical variation of <i>Ravenala madagascariensis</i> wood density, effect of the botanical variety and geographical provenance	Why can we see lianas from space?	Fig seeds dispersal by the fruit-eating cyprinid fishes in tropical freshwater: Evidence from feeding experiments	Structure and diversity of a terrestrial vertebrate community in terra firme forests in the Colombian Amazon	A novel experimental game reveals the importance of performance-based payments and social equity in conservation conflict interventions	Climate and soil drive tree demographic rates in the tropical rainforests of Australia – A combined approach at the crossroads of population and functional ecology
	Darren NORRIS	Ismael RATEFINJANAHARY	William ELLIS	Tahiana RAMA-NANANTOANDRO	Marco VISSER	Pornwivan POTHASIN	Gabriel COLORADO	Sarobidy RAKOTONARIVO	David BAUMAN
4:22 pm	Does the use of modern agricultural inputs by smallholder farmers reduce deforestation? A case study for Zambia	Photosynthetic responses to large-scale nutrient additions in Central Amazonia	What are the environmental factors on seedling distribution and survival at Mo Singto Forest Dynamics Plot, Thailand?	On the origin of species in a Neotropical savanna: Divergence times and evolutionary patterns of extant biodiversity in the Brazilian Cerrado	Successional pathways and vegetation recovery dynamics on charcoal kiln sites	Intra-individual variability in xylem water isotopic signature causes incorrect assessment of root water uptake depth	Tropical forest leaf reflectance can detect Mayan pyramids across the Yucatan Peninsula, Mexico	Illegal wildlife trade assisted by overseas tourism in Southeast Asia	The potential effects of climate change and forest loss on the wild yams of Madagascar
	Johanne PELLETIER	Kelly ANDERSEN	Anuttara NATHALANG	Fabircius DOMINGOS	Tuyeni MWAMPAMBA	Hannes DE DEURWAERDER	Eleanor THOMSON	Jingjing XU	Stuart CABLE
4:38 pm	A dynamic tool to balance environmental and economic demands for native vegetation compensation in Brazil	Taxonomic, functional, and phylogenetic beta diversity of conifers in Mexican mountain ranges	Impact of habitat fragmentation on plant-frugivore interactions in lowland tropical forests of northeast India	Unraveling diversity patterns and endemism in Malagasy ants: A phylogenomic approach	The influence of inter-annual climatic variability on abandoned field successional dynamics in a wet tropical forest	Functional diversity at tropical forests and savannas	Effect of riverine characteristics in structuring the small carnivore communities in the Great Himalayan National Park, India		Drier tropical forests may become more functionally, taxonomically, and phylogenetically homogenous than wetter forests after a long term drought
	Kaline de MELLO	Libertad SANCHEZ-PRESA	Abir JAIN	Bonnie BLAIMER	Miguel MARTINEZ-RAMOS	Tomas DOMINGUES	Meghna BANDYOPADHYAY		Jesús Aguirre GUTIERREZ
5:00 pm 5:30 pm	COFFEE BREAK								
5:00 pm 6:00 pm	POSTER SESSION 1								
6:30 pm 7:30 pm	ATBC OPEN FORUM								

Time	Thursday, August 1								
	Auditorium	Cristall	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
8:30 am 7:30 pm	REGISTRATION								
8:30 am 9:30 am	KEYNOTE LECTURE 04: Infrastructure Armageddon and the Future of Tropical Nature (Auditorium) William LAURANCE								
9:30 am 10:30 am	COFFEE BREAK								
10:00 am 12:00 pm	Symposium 01-2	Symposium 06-2	Symposium 18-2	Symposium 02	Symposium 08	Symposium 17-2	Symposium 13	Symposium 10	Symposium 11
	Seed dispersal ecology in Madagascar's forests: advances and future directions	Monitoring the forest cover: tools for managing natural resources	Bridging the divide: understanding tropical grassy biomes across Africa and Madagascar	Broad-scale determinants of tropical diversification and community assembly	Tropical biome responses to global change: integrating empirical data and models	Synthesizing camera trapping data for tropical ecology and conservation	Biodiversity management and development: challenges, opportunities and new directions	The challenge of connectivity in a fragmented world – insights from Malagasy Forests	Large-scale ecosystem manipulation experiments as a way forward to tropical vegetation ecology
10:05 am	Success of seed dispersal for Malagasy large-seeded trees: Linking to behavioral strategies of frugivorous lemurs	Climate variability effect on the plant phenology and tree mortality in unique Dry Spiny Forest of Southwestern Madagascar	The distribution of savanna in Madagascar	A macroevolutionary process model to investigate hotspots of tropical biodiversity	The impacts of Ozone (O ₃) on tropical vegetation	Food web structure of tropical forest mammals varies among continents	From biodiversity offsets to target-based compensation	Corridor effects on the genetic diversity of mouse lemurs in a fragmented landscape	An overview of modeling and experimental results from the Amazon FACE research program
	Hiroki SATO	Rakotomalala Yedidya RATOSONAMANA	Vonjison RAKOTOA-RIMANANA	Daniel ROSAUER	Alexander CHEESMAN	Lydia BEAUDROT	Martine MARON	Karina MONTERO	David LAPOLA
10:22 am	Frugivore declines and the vulnerability of seed dispersal services across Madagascar	Developing strategies for forest restoration integrating seed dispersal by lemurs and socio-economic interests of the local community	Composition and functional diversity of fire and grazing grasslands of Madagascar's Central Highlands	Biogeographic contingencies shape the savanna biome	Stomatal optimisation based on xylem hydraulics (SOX) predicts global leaf and ecosystem responses to climate	An assessment of the terrestrial mammal diversity in a sustainably logged forest in east Gabon: Impact of camera trap placement strategy on the detected species	Promoting best practice across the tropics: lessons learned from Africa, South America and Indochina	Factors affecting connectivity and diversity of mouse lemur populations in northwestern Madagascar	The Amazon Fertilisation Experiment: Ecosystem scale nutrient manipulation in Amazonia
	Amy DUNHAM	Kim Jakob EZRA STEFFENS	Cédrique SOLO-FONDRANOHATRA	Caroline LEHMANN	Cleiton ELLER	Davy FONTEYN	Fabien QUETIER	Malcolm RAMSAY	Carlos QUESADA
10:39 am	Smallest nocturnal primates assist in maintaining plant species diversity in Malagasy rainforests	Forest Watcher App implementation to design protected area patrolling system in Beampingaratsy Forest corridor, SE Madagascar	A unified framework for plant life history strategies shaped by fire and herbivory	The origin and evolution of the Amazonian biota	Bringing together modelers and field ecologists in the development of the Tropical Responses to Altered Climate Experiment (TRACE)	Environmental determinants of mammal abundance across the Neotropics	Biodiversity data management for mitigating and offsetting development impacts on biodiversity: Lessons learned from Madagascar	Covariation of genetic diversity in forest dwelling taxa facing habitat loss and fragmentation on Madagascar	Long-term impacts of drought on tropical forest
	Veronarindra RAMANANJATO	Sébastien WOHLHAUSER	Sally ARCHIBALD	Lucia LOHMANN	Molly CAVALERI	Carlos PERES	Rija RAJAONSON	Jordi SALMONA	Patrick MEIR

Thursday, August 1									
Time	Auditorium	Cristall	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
10:56 am	Dispersal of an invasive plant species by a native seed predator	When monitoring isn't an option – rationales for uplisting Malagasy precious woods to CITES Appendix I	Palatability-flammability trade-offs promote alternate grassland states	Linking present day ecology with micro- and macro-evolution across Neotropical biomes	Plant salt-tolerance regulates vegetation-groundwater interactions in tidal wetlands	High mammal functional diversity and functional redundancy over time in a tropical forest protected area	Net Gain: Seeking better outcomes for people when mitigating biodiversity losses from development	Genetic consequences of habitat loss and fragmentation: Insights using spatio-temporal simulations	Pushing forests over the edge with drought and fire: Results from two large-scale ecological experiments in Amazonia
	Ryan ROTHMAN	Patrick O. WAEBER	Gareth HEMPSON	Flávia PEZZINI	Saverio PERRI	Daniel GORCZYNSKI	Julia JONES	Gabriele SGARLATA	Paulo BRANDO
11:13 am	Impact of collecting seeds from Black-and-white Ruffed Lemurs feces on natural regeneration at Kianjavato forest fragments, SE Madagascar	Using bioacoustics to strengthen corporate conservation commitments	History of the savanna Malagasy olive tree (<i>Noronhia lowryi</i>)	Improving biodiversity prediction in the Brazilian Atlantic rainforest: Mapping diversity and its environmental correlates	Representing tropical forest diversity in vegetation models: Conceptual challenges and demographic opportunities		Evaluation of three governance approaches to offsetting residual impacts of QMM's mining activities in SE Madagascar	Testing dispersal abilities of large-bodied lemurs: Long-term monitoring of a relocated population of Collared Brown Lemurs in littoral forest fragments	
	Zafimahery RAKOTOMALALA	Rhett BUTLER	Guillaume BESNARD	Andrea PAZ	Sean MCMAHON		Jeannie RAHARI-MAMPIONONA	Giuseppe DONATI	
11:30 am		Urban Forests – the role they can play in an increasingly urbanised world		Chemical defenses and the commonness and rarity of Protium (<i>Burseraceae</i>) trees in Amazonia			Linking livelihood program with conservation efforts: Lessons learned from Ambatovy's experiences	A biogeographic model of minimum protected area requirements for primates in eastern Madagascar	
		Blaise COOKE		Paul FINE			Baholy RAMAHAVALISOA	Shawn LEHMAN	
12:00 pm 2:00 pm	LUNCH								
	WORKSHOP 03: National Geographic grants & grant writing workshop (Emeraude)								
	WORKSHOP 06: Capacity building for conservation in Africa (Perle)								
	WORKSHOP 11: ATBC Nature Art Station Madagascar 2019 (Rubis)								
WORKSHOP 13: Biotropica informal «meet and greet» (Zircon)									
2:00 am 4:00 pm	GS13	GS17	GS12	GS10	GS11	GS14	GS15	GS16	GS18
	Tropical Biodiversity and Global Changes	Ecosystem Functions and Services	Tropical Biodiversity and Global Changes	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Tropical Biodiversity, Socio-economic and Cultural Dimensions	Threats, Pressures and Sustainable Developpement	Tropical Biodiversity and Global Changes	Other
2:02 pm	Functional shifts in human-modified Amazonian forests as a consequence of an extreme drought and consequent wildfires	Total above and below ground carbon stock partitioning in eastern Cameroonian tropical rainforest	Pre-monsoon drought variability over the past two centuries inferred from teak tree rings in southern Myanmar	The importance of searching for lost plant species for biodiversity conservation in Madagascar	Genetic structuring of aphyllous <i>Vanilla</i> species from the southwest Indian Ocean region	Citizen science for the tropics	Plant succession in the forest fragment of Ankorabe, eastern Madagascar	Biodiversity and coffee management in Ethiopia	Secondary forests dynamics: What are the key societal drivers at local to global scales?
	Erika BERENQUER	Masha VAN DER SANDE	Zaw ZAW	Vololoniaina JEANNODA	Cathucia ANDRIAMIHAJA	Elizabeth ANDERSON	Elie RAMIARANA	Kristoffer HYLANDER	Patricia BALVANERA

Time	Thursday, August 1								
	Auditorium	Cristall	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
2:18 pm	Response of dry forests to rainfall variability and human land use over the last 2000 years, western Madagascar	Influence of plant functional traits on leaf litter arthropod communities: An experimental community restoration approach in lowland wet forest in Hawaii	Isoprene emission under high atmospheric CO2 concentration and phosphorus addition in seedlings of <i>Inga edulis</i> in the Central Amazon understory - An in situ open-top chamber experiment	Habitat disturbance affects gut microbiota communities differently in wild arboreal and ground-feeding tropical primates	Catch me if you can: Species interactions and moon illumination effects on mammals of tropical forest of Manas National Park, India	The effects of human disturbance on the integrity of sacred church forests in northern Ethiopia	Natural tree regeneration and planted tree survival after suppression of the fern, <i>Dicranopteris linearis</i> , with mechanical removal, fire, and cover crops	Disentangling the effects of functional diversity, land-use change and environmental conditions on biogeochemical cycling in human-modified tropical forest in northern Borneo	The Queen of Sheba's chickpeas: Trade routes for diversification of domesticated chickpea inferred from landrace genomics
	Estelle RAZANATSOA	Rebecca OSTERTAG	Vanessa FERRER	Claudia BARELLI	Urijit BHATT	Catherine CARDELUS	Rebecca MONTGOMERY	Yit Arn TEH	Eric VON WETTBERG
2:34 pm	Knowledge integration in conservation under the light of a methodology of partial overlaps	Preserving Orangutan biodiversity through reversing deforestation with human health care: The work of non-profit Health In Harmony in Indonesian Borneo	Live fast, die younger, longevity reduction of tropical trees under warm and dry climate	Ecology and conservation of the Bengal Slow Loris (<i>Nycticebus bengalensis</i>) and other nocturnal mammals in an agroforestry-forest mosaic in northeastern Bangladesh	Evolution of digestive symbiotic systems in termites in the light of termite transcriptome phylogeny	Culture inextricably entwined with nature: Linking biocultural values and human well-being in the Eastern Cape, South Africa	Identification and prioritisation of zones for forest landscape restoration areas in the Antrema protected area, northwestern Madagascar	Resurrection of Amazonian forests: Re-sprouting as a post-disturbance strategy in human-modified Amazonian forests	Tree growth and conservation in semi-arid southern Madagascar
	Charbel EL-HANI	Maya MOORE	Dieter ANHUF	Sabir MUZAFFAR	Ales BUCEK	Susanne VETER	Hanitriniaina RASOLOFONIRINA	Immaculada OLIVERAS	Ariadna MONDRAGON BOTERO
2:50 pm	Occupancy and population density estimation of saltwater crocodiles (<i>Crocodylus porosus</i>) in Ayeyarwady Region, Myanmar	Small roots of <i>Parashorea chinensis</i> decompose slower than twigs	Anticipating future wildfire risk in southern Amazonia: A social-ecological systems analysis	The effect of landscape variables and human disturbance on the recovery of tiger prey in western Thailand	Demographic inference and model choice using the IICR (inverse instantaneous coalescence rate) as a summary of genomic diversity	Challenges in determining the status of the Yellow-spotted River Turtle (<i>Podocnemis unifilis</i>) in Manu National Park, Peru	Sumatran peatlands and their forests: Can peat restoration improve biodiversity and rainforest connectivity?	Land-use effects on climbers and herbs' regeneration in Amazonian secondary forests	Use of camera traps to study the predation of the Puerto Rican Racer (<i>Borikenophis portoricensis</i>) in the Cambalache State Forest, Arecibo, Puerto Rico
	Kay ZIN THAN	Gbadamassi DOSSA	Tahia DEVISSCHER	Worapan PHUMANEE	Lounès CHIKHI	Roxana P ARAUCO ALIAGA	Eleanor WARREN THOMAS	Catarina JAKOVAC	Adolfo RODRIGUEZ-VELAZQUEZ
3:06 pm	Deep-time defaunation: The botanical consequences of the dinosaur extinctions	Leaf-stem segmentation of drought-induced vulnerability to embolism across Neotropical tree species: Does it exist, and is it a mechanism of drought resistance?	Spatio-temporal dynamics of Ampamanta mangroves, areas of usage right in the biocultural site of Antrema, northwestern Madagascar	Ants from Caatinga dry forest: Biogeography, ecology, and conservation	Functional metagenomics sheds light on the gut microbiome evolution of 37 species of genus <i>Microcerotermes</i>	Agents of change under telecoupling: Aiming for sustainable land governance in northeastern Madagascar	Creating the world's largest protected areas: Optimizing a partial closure of the high seas	Intra-annual variation in tree growth rate and biomass across Amazon forests differing in land-use history	Opening the black box: An editor's perspective on scientific publishing
	Renske ONSTEIN	Sébastien LEVIONNOIS	Tsinjo RAKOTOBARY	Inara LEAL	Jigyasa ARORA	Onintsoa ANDRIAMIHAJA	Timothy TREUER	Rafael ASSIS	Sacha VIGNIERI

Time	Thursday, August 1								
	Auditorium	Cristal	Emeraude	Grenat	Opale	Perle	Rubis	Saphir	Zircon
3:22 pm	Local representation of the forest in the rural commune of Ranomafana-Est, eastern Madagascar: From resources use to conservation	Using remote sensing techniques to monitor forest degradation and forest regeneration in Madagascar's tropical eastern rainforest	Primates' inherent susceptibility to tropical cyclones: A trait-based approach	Hill fire impacts on ant abundance and implications for Chinese Pangolin habitat suitability	Social canid in a metapopulation network: Dhole genetics in Eastern Vidarbha landscape, Maharashtra, India	Small-scale spatial variation in malaria prevalence and deforestation among human communities near priority areas in Madagascar	Restoring forests in the Eastern Himalaya: The importance of monitoring and maintenance	Forest fragments enhance the potential of secondary forests to restore and preserve biodiversity in human-modified landscapes	Termite diversity is robust to land-use change along forest-cocoa intensification gradient
	Sitraka Mireille RANAIVOSOA-TOANDRO	Fety RAKOTOMALALA	Eric AMECA	Anna GOLDMAN	Shrushti MODI	Benjamin RICE	Noopur BORAWAKE	Michiel VAN BREUGEL	Gabriel WILLIE QUANSAH
3:38 pm	Lianas in silico: The impact of forest structure on the abundance of woody vines	How do environmental and socioeconomic drivers govern biodiversity recovery in natural regeneration of tropical forests?	Integrating dynamic energy budgets and population viability analyses to assess the effects of habitat degradation	Conservation status of the genus <i>Aloe</i> in Madagascar		Bridging the gap through community local conservation	First signals of small-scale molecular edge effects in a non-human primate	Verreaux's sifaka (<i>Propithecus verreauxi</i>) group size, group composition, and dispersal patterns are influenced by climate: The case study of a lemur inhabiting a tropical dry forest	Testing the environmental prediction hypothesis for general flowering using flowering phenology data monitored at the Pasoh Forest Reserve in Malaysia
	Manfredo DI PORCIA E BRUGNERA	Renato CROUZEILLES	Kenichi OKAMOTO	Solofo RAKOTOARISOA		Andrilalao M. RAKOTONALONA	Ute RADESPIEL	Rebecca LEWIS	Akiko Satake
4:00 pm 5:00 pm	COFFEE BREAK								
5:00 pm 6:30 pm	POSTER SESSION 2								
6:30 pm	ATBC-Africa chapter meeting (Emeraude)								
	ATBC-Asia chapter meeting (Rubis)								
	ATBC-Neotropical Chapter meeting (Cristal)								
	PANEL DISCUSSION 2: Biotropica informal «meet and greet» (Grenat)								
PANEL DISCUSSION 3: Research is one of the sectors with very limited funding in Madagascar by Tany Meva Foundation (Opale)									

Time	Friday, August 2						
	Auditorium	Cristal	Emeraude	Grenat	Opale	Perle	Saphir
8:30 am 7:30pm	REGISTRATION						
8:30 am	KEYNOTE LECTURE 05: Land use, climate change and tropical forest conservation Kaoru KITAJIMA						
9:30 am 10:00 am	COFFEE BREAK						
10:00 am 12:00 pm	GS24	GS23	GS22	GS20	GS19	GS21	GS25
	Threats, Pressures and Sustainable Development	Tropical Biodiversity and Global Changes	Threats, Pressures and Sustainable Development	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Ecosystem Functions and Services	Characterization of Tropical Biodiversity (species, genetics, and landscape)
10:02 am	Hydropower expansion and the decline of top predators: Contrasting current and future scenarios for jaguars and tigers	Potential effect of climate change on annual reptile species: Case of the Malagasy chameleon with the shortest lifespan <i>Furcifer labordi</i> (Reptilia, Chamaeleonidae)	Are plant populations demographically better off in a diverse community?	Ecological characterization of dry forest of Antrema for ecological monitoring	Comparative breadth of niche between sympatric <i>Macaca leonina</i> and <i>M. mulatta</i> in a fragmented tropical forest, southwest China	Associations between stream fish assemblage and riparian vegetation in Amazonian streams of southern Colombia	First density and survival estimates of the Malagasy striped civet <i>Fossa fossana</i> in Madagascar's largest protected area
	Ana Filipa PALMEIRIM	Miary RASELIMANANA	Orou GAOUE	Marie Olivia FANOMEZANTSOA	Nan SUN	Gabriel COLORADO	Asia MURPHY
10:18 am	New framework to develop High Conservation Value concept for plant species: The Gabonese endemics as a case study	Tracking the effects of global change on central Africa's tropical forest using a unique herbarium record	Transforming human-wildlife interactions by integrating mitigation, compensation, and technology	Malagasy inselbergs: Neglected but floristically diverse and in need of conservation	Context dependency in plant interactions: Meta-analysis of facilitation and competition in coastal dunes	Generality of Demographic Trade-offs in Undisturbed and Hurricane Disturbed Tropical Forests	Rapid loss of flight in extant and extinct populations of the evolutionarily unique Aldabra White-throated Rail <i>Dryolimnas [cuvieri] aldabranus</i>
	Nicolas TEXIER	Marijn BAUTERS	Krithi KARANTH	Marina RABARIMANARIVO	Camila de CASTANHO	Stephan KAMBACH	Lisa NUPEN
10:34 am	Intact but empty forests? Patterns of hunting-induced mammal defaunation in the tropics	Anthropogenic impacts on watersheds: Conservation and management of the <i>hippopotamus</i> through spatial ecology research	Species conservation in the Alandrazza-Agnalavelo Protected Area, Madagascar: Case of <i>Euphorbia mandravioky</i>	Wood anatomy analysis for identification of some Malagasy <i>Dalbergia</i> species	Competition for nest cavities among introduced parrots in Singapore	Exploring the drivers and agents of decomposition in South African savannas	Madagascar bamboos: Ecology, systematics, and benefits
	Ana BENITEZ LOPEZ	Keenan STEARS	Tabita RANDRIANARIVONY	Harisoa RAVAOMANALINA	Astrid ANDERSSON	Katherine BUNNEY	Rakotonasolo Rivontsoa ANDRIMALALA
10:50 am	Decline of the wild Ploughshare Tortoise caused by poaching for illegal trade	Thermoregulatory consequences of activity time in mammals	Rhizospheric soil property of <i>Milletia</i> (Fabaceae) in Madagascar with two endemic species and one introduced	Detecting economically important palms using UAV imagery in intact, moist tropical forest	Nematode - scarab beetle interactions in the Indian Ocean with a focus on Réunion Island	Drivers of biomass dominance structure in Neotropical secondary forests	The Rubiaceae of Gabon
	Angelo MANDIMBIHASINA	Timothy BONEBRAKE	Joseph Felana RAKOTO	Ximena TAGLE	Matthias HERRMANN	Edwin LEBRIJA-TREJOS	Olivier LACHENAUD

Friday, August 2							
Time	Auditorium	Cristal1	Emeraude	Grenat	Opale	Perle	Saphir
11:06 am	Rapid increase in deforestation after peace agreement in Colombia: A time-series analysis	A novel atlas representing Madagascar's biodiversity and potential refuges driven by deforestation and climate change	Effects of habitat fragmentation on seedling establishment of epiphytic orchids: A case study in tropical China	Genome wide association study approach for tropical timber species to enhance productivity through planting activities	Reproductive ecology, pollination, and floral visitors of Malagasy plants	Fertilization of soil nitrogen by symbiotic nitrogen-fixing trees – a case of "altruism" in tropical forests?	Towards passive acoustic monitoring of lemurs: A field test of an affordable autonomous recording unit to monitor <i>Phanerpallescens</i>
	Edgar CIFUENTES	Corentin KNOPLCH	JiangYun GAO	Naoki TANI	Elisabeth RABAKONANDRIANINA	Wenyng LIAO	Matthias MARKOLF
11:22 am	Assessing the impacts of forest degradation on <i>Varecia rubra</i> (Red Ruffed Lemur)	Assessing exposure to extreme climatic events for the world's primates	Use of Near InfraRed Spectroscopy for an easy determination of taxonomic identity of some <i>Dalbergia</i> and <i>Diospyros</i> species of Madagascar	Evaluating diversification mechanisms in biodiversity hotspots	Variation in social dominance in six mouse lemurs across an ecological gradient in northwestern of Madagascar	Large frugivores matter: Insights from network and seed dispersal effectiveness approaches	Using the U-net convolutional network to identify indicators of forest disturbance in a Neotropical forest with very high resolution multispectral images
	Rita RATSISETRAINA	Lyubing ZHANG	Clare RAOBELINA	Christopher BARRATT	Mamy Rina EVASOA	Rohit NANIWADEKAR	Fabien WAGNER
11:38 am	Biogenic Volatile Organic Compound (BVOC) emission patterns of two hyperdominant tree species distributed in an environmental gradient in central Amazonia	Vegetation structure of mangroves in an ecotone along a latitudinal gradient, Florida	Fire risk in selectively logged Amazonian forests	Lemurs and birds as frugivores and potential seed dispersers of mistletoe in a southeastern rainforest of Madagascar	Determinants of native fish species turnover in the Western Ghats, India	3D modeling of tropical dry forest using UAV imagery and Structure from Motion	A countryside carnivore: Aspects of leopard ecology at Jawai, Rajasthan
	Eliane GOMES-ALVES	Christopher MILLER	Manoela MOLLINARI	Zo FENOSOA	Anne AXEL	Vidyadhar ATKORE	Ravi SHARMA
12:00 pm 2:00 pm	LUNCH						
	WORKSHOP 05-MIHARI Network: Building a civil society movement to safeguard marine resources (Grenat)						
	WORKSHOP 11/1-ATBC Nature Art Station Madagascar 2019 (Rubis)						
	WORKSHOP 12-Diversity and Inclusion panel (Cristal)						
	WORKSHOP 10-1. Mentoring Circle meeting (Emeraude)						
	Cristal1	Emeraude	Grenat	Rubis	Saphir	Zircon	Grenat
2:00 pm 4:00 pm	Symposium12	Symposium 20	Symposium 09	Symposium 07	Symposium 15	Symposium 19	Speed Presentation
	Conservation in Madagascar: threats and opportunities	Sustainable tropical agroforestry: Balancing biodiversity and crop yield through ecosystem services	Telecoupled land use change in Madagascar implications for conservation and sustainable development	Restoring 100 million hectares in Africa by 2030: goals, lessons and challenges	Regeneration of malagasy forests: a synthesis	The Interplay of Infectious Disease and Biodiversity Conservation	Please refer to page 57 for a list of speed presentation
2:05 pm	Village by village: Rebuilding inshore fisheries with coastal communities in Madagascar	Biodiversity assessment of vanilla agroforests in the SAVA region of Madagascar: The impact of plantation management on the diversity of plants and vertebrate fauna	Telecoupled land use changes in northeastern Madagascar: Co-producing knowledge for sustainable development	AFR100: An introduction to the commitment to restore 100 million hectares in Africa by 2030	Low resilience of xerophytic thickets following human disturbances: Implications for dry forest conservation and management	Effects of land use, habitat characteristics, and small mammal diversity on <i>Leptospira</i> prevalence in lowland northeastern Madagascar	
	Aigrette RAVAOARINO-ROTSIHOARANA	Sam COTTON	Julie ZAEHRINGER	Mamadou DIAKHITE	Josoa RANDRIAMALALA	James HERRERA	

Friday, August 2							
Time	Cristal	Emeraude	Grenat	Rubis	Saphir	Zircon	Grenat
2:22 pm	Combat climate change, protect watersheds and biodiversity, and improve human well-being starting in the city center of Antananarivo	Bird communities in Afrotropical cocoa farms are diverse but lack specialised forest insectivores	Telecoupled land use change in northeastern Madagascar under conservation interventions and cash crops booms: Impacts on human well-being and forest dynamics	Identifying restoration hotspots in Africa's wet tropics	Regeneration and fragmentation of dry deciduous forest of Madagascar	The synergistic effect of parasitic infestation and socio-ecological factors on the body condition of <i>Microcebus rufus</i>	Please refer to page 57 for a list of speed presentation Please refer to page xx for a list of speed presentation
	H. Andry RASAMUEL	Crinan JARRETT	Jorge LLOPIS	Robin CHAZDON	Hibrahim Rijaso RAVONJIMALALA	Herman RAFALINIRINA	
2:39 pm	Covering conservation in Madagascar	The birds, the bats, and the chocolate trees: Achieving sustainable agriculture in the Afrotropics through DNA metabarcoding	On the importance of biophysical and socio-economic factors on driving land-use change in northeastern Madagascar: Insights from two case studies	Measuring the contribution of trees-on-farms to forest landscape restoration	Comparative review of regeneration of rain forests and dry forests in Madagascar	Who let the dogs out?: Invasive carnivores, zoonotic pathogens, and wildlife conservation	
	Rebecca KESSLER	Luke POWELL	Ntsiva ANDRIATSITOHAINA	Rhett HARRISON	Herizo RANDRIAMBANONA	Sarah ZOHDY	
2:56 pm	How should conservationists deal with corruption and security threats?	Economics of cocoa pollination: Towards a high-yielding, biodiversity-friendly, and climate-adapted production system in Ivory Coast, Ghana, and Indonesia	Socio-economic and land use changes driven by large-scale agricultural investment: Contrasted case studies in Madagascar	Enhancing socio-economic benefits through FLR via the Sustainable Fuelwood Management (SFM) project in Cross River State, Nigeria	Seed bank and seed rain relative contribution to secondary forest regeneration after cultivation: The case of rainforests of eastern Madagascar	Specific human behaviors and animal associations affect the risk of diarrheal disease at the zoonotic interface of a biodiverse tropical forest ecosystem	
	Rowan Moore GERETY	Thomas WANGER	Herinaina RAKOTOMALALA	Edu EFFIOM	Andry RANDRIANARISON	Fara RAKOTOARISON	
03:13 pm	Disease and conservation: A tale of vectors, spill-over, and invasive species		Local perception of priority ecosystem services in the tropical forest of eastern Madagascar: The case of the Ambatovy mine area	Capacity development for forest restoration in Africa	Dry forests and rainforests, thickets, regrowths: What transitions for forest resource conservation in Madagascar?	Behavioral responses, infectious disease, and parasites: Implications for biodiversity conservation	
	Thomas GILLESPIE		Malalotiana RAKOTOARIVONY	Rosie TREVELYAN	Dominique HERVE	Patricia WRIGHT	
3:30 pm				The use of online and blended (online and field-based training) to build capacity for FLR in Africa	The effectiveness of the community-based forest management system in reducing deforestation in eastern Madagascar		
				Karin BUCHT	Niry Solofonianja RASOANAIVO		
4:00 pm 5:00 pm	COFFEE BREAK						
5:00 pm 6:30 pm	POSTER SESSION 3						
6:30 pm 7:30 pm	PANEL DISCUSSION 4: Photographic guide book to the birds of Madagascar (Ny Vorontsika eto Madagasikara)						
	WORKSHOP 07: Madagascar Lab&Kitchen by Cascoland - Installation/Workshop						

Time	Saturday, August 3							
	Auditorium	Cristal	Emeraude	Grenat	Opale	Rubis	Saphir	Zircon
8:30 am 9:30 am	KEYNOTE LECTURE 06: Why Emerging Conservation Leaders are our best hope for saving biodiversity (Auditorium) Jonah RATSIMBAZAFY							
9:30 am 10:00 am	COFFEE BREAK							
	GS33	GS27	GS30	GS26	GS28	GS29	GS31	GS32
10:00 am 12:00 pm	Threats, Pressures and Sustainable Development	Threats, Pressures and Sustainable Development	Ecosystem Functions and Services	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Tropical Biodiversity, Socio-economic and Cultural Dimensions	Tropical Biodiversity and Global Changes	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Island Biodiversity, Marine and Coastal
10:02 am	Evaluation of the effect of climate change in vegetation phenology using long-term NDVI, case of Menabe, Madagascar	IUCN status assessment and management plan of <i>Neobeguea mahafaliensis</i> , <i>Alluaudia montagnacii</i> and <i>Alantsilodendron alluaudianum</i> , the most commonly used woody species in the spiny thicket of SW Madagascar	Captured sunshine: How much photosynthetic energy ends up consumed by vertebrates in intact and logged tropical forests?	Double mutualisms: A global tropical island phenomenon	Optimising biodiversity and yield in Ghanaian smallholder oil palm plantations	Invasive vs. native ant diversity across a land use gradient in vanilla landscapes of the Sava Region, northeastern Madagascar	Distribution of the Amber Mountain Fork-marked Lemur (<i>Phaner electromontis</i>) throughout northern Madagascar	Does forest fragment size mediate the impacts of introduced rodent predators? Foraging behavior and impact of Hawaiian birds on their arthropod resources
	Andriambolantsoa RASOLOHERY	Tahina RASOLOFO	Yadvinder MALHI	Anna TRAVESET	Keith HAMER	Anjoharinony RAKOTOMALALA	Daniel HENDING	Daniel GRUNER
10:18 am	Roadkills in northern Peninsular Malaysia	Oil palm plantation use by terrestrial mammals in Colombia: Species-specific responses to an expanding monoculture	Invitation to forest canopy ecology: global scale collaboration opportunities	Assessing the effects of elephant foraging on the structure and diversity of an Afrotropical forest	Profile and competency needs of terrestrial protected areas professionals in Madagascar	Sub-lethal effects of invasive predators: The impact of free-ranging dogs on temporal activity of Atlantic forest mammals	Beta diversity of woody plants in east Asian tropics and temperate insular biotas: The roles of geohistorical and ecological processes throughout the Philippines, Taiwan, and Japan	Low fruit production in a dry forest tree: Resource or pollination limited?
	Tabitha HUI	Lain PARDO	Akihiro NAKAMURA	Cooper ROSIN	Domoina RAKOTOBÉ	Fernando RIBEIRO	Junichi FUJINUMA	Steven SLOAN
10:34 am	Demystifying deforestation in Madagascar, case study at Moramanga	Temporal changes in tropical urban bird and butterfly communities in Singapore	The consequences of land use on subsurface water storage and vegetative water source in a tropical dry forest	Home range size in the Blue-eyed Black Lemur (<i>Eulemur flavifrons</i>): A comparison between dry and wet seasons	Intention of preserving forest remnants among landowners in the Atlantic Forest hotspot: The role of the ecological context and experiences with nature	Female mate selection and courtship under elevated background predation risk in an invasive tropical aquatic species	Application of the point-transect distance sampling method to estimate gibbon density in dry evergreen forest, western Thailand	New genus and tribe (Rubiaceae) from the Seychelles sister to a tropical African lineage and a sole representative of a critically endangered lineage
	Andriambolantsoa RASOLOHERY	Rachel LEE	Emily SANTOS	Sylviane VOLAMPENO	Renata PARDINI	Arun DAYANANDAN	Mayuree SORNSA	Sylvain RAZAFIMANDIMBISON

Time	Saturday, August 3							
	Auditorium	Cristal	Emeraude	Grenat	Opale	Rubis	Saphir	Zircon
10:34 am	Demystifying deforestation in Madagascar, case study at Moramanga	Temporal changes in tropical urban bird and butterfly communities in Singapore	The consequences of land use on subsurface water storage and vegetative water source in a tropical dry forest	Home range size in the Blue-eyed Black Lemur (<i>Eulemur flavifrons</i>): A comparison between dry and wet seasons	Intention of preserving forest remnants among landowners in the Atlantic Forest hotspot: The role of the ecological context and experiences with nature	Female mate selection and courtship under elevated background predation risk in an invasive tropical aquatic species	Application of the point-transect distance sampling method to estimate gibbon density in dry evergreen forest, western Thailand	New genus and tribe (Rubiaceae) from the Seychelles sister to a tropical African lineage and a sole representative of a critically endangered lineage
	Andriambolantsoa RASOLOHERY	Rachel LEE	Emily SANTOS	Sylviane VOLAMPENO	Renata PARDINI	Arun DAYANANDAN	Mayuree SORNSA	Sylvain RAZAFIMANDIMBISON
10:50 am	Projecting body size limits for mammals under current hunting practices	Physiographic unit mosaic in the floodable savannas from the Colombian Orinoco	Land-use history and shade management influence the conservation value of vanilla agroforestry in the biodiversity hotspot of northeastern Madagascar	Resource partitioning in Neotropical frugivorous understory birds	Human dimension of conservation planning: The case of Madagascar	Managing a stinking problem: Understanding threats and improving weed control options for <i>Passiflora foetida</i> in Australia	Passive auditory monitoring as a promising method for occupancy modeling of spider monkey populations	Endemic fish species diagnostic in Lake Itasy catchment area - towards a conservation strategy
	Charlotte CHANG	Luisa VEGA	Dominic MARTIN	Daniela KREBBER	Tendro TONDRASOA	Bruce WEBBER	Anja HUTSCHENREITER	Robertin RASOLOARINIAINA
11:06 am	Activity budget of Indochinese Grey Langur (<i>Trachypithecus crepusculus</i>) in Namkan National Protected Area, Bokeo Province, Lao PDR	Understanding anthropogenic pressures around the Ankerana Forest offset, Madagascar	Herbaceous plant communities across land-use types within vanilla production landscapes in northeastern Madagascar	Seed dispersal strategy as drivers to the evolution of flowering phenology	Combining citizen science, social media and scientific research for ecological and conservation assessments: Wild canids in India as a case study	Adaptation strategy and use analysis of the urban environment of Antananarivo by Common Mynas (<i>Acridotheres tristis</i>)	Mixing floodplain avifaunas with the confluence of major rivers in northwestern Brazilian Amazonia	Linking social and ecological data to understand how Pacific Island fishers navigate changing coral reefs
	Duangphachan SOUVANSAI	James RAKOTOVAO	Jeannie Marie Estelle RAVELOARITIANA	Yu-Yun CHEN	Arjun SRIVATHSA	Lalafiana RANDRIAMIHARISOA	Thiago LARANJEIRAS	Sally HOLBROOK
11:22 am	Age-based insights into population trends and infection dynamics for Malagasy fruit bats	Towards sustainable use and management of frankincense	Human disturbances and the decline of aboveground biomass in the Caatinga dry forest	Phylogenetic preferences in herbivorous beetle diet on trees in KwaZulu-Natal, South Africa	Deforestation and rice: A multi-temporal study projecting patterns of forest change in eastern Madagascar	The red devil cichlid (<i>Amphilophus labiatus</i> , Günther 1864) and its relationship to environmental and biodiversity factors in Lake Sentani Papua, Indonesia	The pitfalls of biodiversity proxies: Differences in richness estimates from DNA metabarcoding, tree inventories, and bird surveys across Amazonia	Humpback whale calves' vocal repertoire in the Sainte Marie channel breeding ground
	Cara BROOK	Frans BONGERS	Marcelo TABARELLI	Joosep SARAPUU	Amanda ARMSTRONG	Henderite OHEE	Camila Duarte RITTER	Anjara SALOMA

Saturday, August 3								
Time	Auditorium	Cristal1	Emeraude	Grenat	Opale	Rubis	Saphir	Zircon
11:38 am	Does community development assisted by ICDP contribute to better conservation goals in the long run?	Meeting the need of Endangered species and people in and around Giant Panda reserves	Recovery of functional diversity during secondary forest succession	Use of SENTINEL1 radar images for the characterization of plant formations: The case of two savannah species <i>Acridocarpus excelsus</i> and <i>Terminalia aff. mantaly</i> in the Antrema Protected Area site (Madagascar).	Conservation clubs: Community participation and biodiversity conservation	Invasion dynamics of an amphibian with frequent human-mediated translocations on the Andaman Archipelago	Jaguar moths: A model for large-scale conservation	Could restoring normal water column mixing improve outcomes for shallow corals during mass bleaching events? – The Reef Havens Research Project
	Binbin LI	Fang WANG	Masha VAN DER SANDE	Bernard RIERA	Caroline ROJOSOANOTAHINA	Nitya Prakash MOHANTY	Jose MARTINEZ	Suzanne LONG
12:00 pm 2:00 pm	WORKSHOP 09: How do we improve forest Habitat Conservation and Ecological Restoration in Madagascar? (Saphir)							
	WORKSHOP 12/2: ATBC Nature Art Station Madagascar 2019 (Rubis)							
		Cristal1	Emeraude	Grenat	Perle	Rubis	Saphir	Zircon
2:00 pm 4:00 pm	GS35	GS34	GS36	GS38	GS40	GS39		
	Ecosystem Functions and Services	Threats, Pressures and Sustainable Development	Ecosystem Functions and Services	Tropical Biodiversity, Socio-economic and Cultural Dimensions	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Characterization of Tropical Biodiversity (species, genetics, and landscape)	
2:02 pm	Nutrient demand and use efficiency explain differences in savanna and forest formations	Primary school conservation education: Critical thinking and participatory science in Madagascar	FRED - degrees of Freedom, Emergence and Dimensions	The socioecological role of restored traditional homegardens in "La Montaña" in Guerrero, Mexico	Do masquerading of snail poop enhance the protective value of sawfly caterpillars?	Ploidy & genome size of desiccation tolerant plants from tropical inselbergs	Structure, composition, and functional diversity of a tropical dry gallery forest in Madagascar	
	Marina SCALON	Lovasoa RAZAFINDRAVONY	Stephan PIETSCH	Eliane CECCON	K.G. Dinelka THILAKARATHNE	Julius KÖHLER	Ariadna MONDRAGON-BOTERO	
2:18 pm	Performance of laser-based electronic devices for structural analysis of Amazonian terra-firme forests	A common pool resource role-playing game for increased stakeholder engagement	The ability to resprout as a mechanism to face the environmental stress in tropical dry forest	Ethnobotanical and biological inventories of <i>Tacca</i> species (Dioscoreaceae) in the Menabe and Sofia Regions, western Madagascar	Attempt of partial pedigree reconstruction in a wild non-habituated chimpanzee community using faecal samples	Distribution status and habitat use of two otter species on the southern Andaman coast of Thailand	Global increases in beta-diversity accompany three decades of deforestation	
	Iokanam Sales PEREIRA	Mialisoa RAVELOARIMALALA	Pablo López BUSTAMANTE	Nomentsoa RANDRIAMAMONJY	Augustin BASABOSE	Naruemon TANTIPIANUH	Adam SHARP	
2:34 pm	Fine root production increases with soil fertility and plant species diversity along a successional gradient in Upper Andean tropical forests	Thermal infrared imaging from drones offers a major advance for spider monkey surveys	Deterministic and stochastic factors influence the seed-to-seedling transition in tropical wet forest restoration	Local knowledge of medicinal plants - The case of Ambohimahavelona, Madagascar	Cathemeral activities in <i>Varecia variegata</i> in Kianjavato, South-eastern Madagascar: Revisited	Endemicity in tropical sky islands: Environmental specificity or isolation?	Climate and forest gradient changes from dry tropical forest to Afro-montane forest in Kenya and restoration of natural forests	
	Juan M. POSADA	Denise SPAAN	Rakan ZAHAWI	Aina RAZAKAMIARAMANANA	Nicola GUTHRIE	Adriana SANCHEZ	Kazue FUJIWARA	

Time	Saturday, August 3						
	Cristal1	Emeraude	Grenat	Perle	Rubis	Saphir	Zircon
	GS35	GS34	GS36	GS38	GS40	GS39	
2:00 pm 4:00 pm	Ecosystem Functions and Services	Threats, Pressures and Sustainable Development	Ecosystem Functions and Services	Tropical Biodiversity, Socio-economic and Cultural Dimensions	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Characterization of Tropical Biodiversity (species, genetics, and landscape)	Characterization of Tropical Biodiversity (species, genetics, and landscape)
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2:34 pm	Fine root production increases with soil fertility and plant species diversity along a successional gradient in Upper Andean tropical forests	Thermal infrared imaging from drones offers a major advance for spider monkey surveys	Deterministic and stochastic factors influence the seed-to-seedling transition in tropical wet forest restoration	Local knowledge of medicinal plants - The case of Ambohimahavelona, Madagascar	Cathemeral activities in <i>Varecia variegata</i> in Kianjavato, South-eastern Madagascar: Revisited	Endemicity in tropical sky islands: Environmental specificity or isolation?	Climate and forest gradient changes from dry tropical forest to Afro-montane forest in Kenya and restoration of natural forests
	Juan M. POSADA	Denise SPAAN	Rakan ZAHAWI	Aina RAZAKAMIARAMANANA	Nicola GUTHRIE	Adriana SANCHEZ	Kazue FUJIWARA
2:50 pm	The food web is not collapsing in the Luquillo Experimental Forest, Puerto Rico	Assessing the conservation value and quality of forest remnants in oil palm landscapes on Borneo	Spatial and temporal variation in microclimatic conditions across secondary succession in two seasonally dry tropical forests	Genome sequence of <i>Cavitermes tuberosus</i> and its associated <i>Wolbachia</i> symbiont	The pattern of scent and over-marking in <i>Diademed Sifaka (Propithecus diadema)</i>	Flora and vegetation of Ngazidja Island in the Comoros Archipelago	Biogeography and conservation status of <i>Meineckia</i> Baill. (Phyllanthaceae) in Madagascar
	Robert WAIDE	Sarah SCRIVEN	Jennifer POWERS	Crystal-Leigh CLITHEROE	Longondraza MIARETSOA	Andilyat MOHAMED	Helene RALIMANANA
3:06 pm	Logging intensity drives variability in carbon stocks in lowland forests in Vietnam	Population genetics data of tropical African trees suggest that species richness is largely underestimated due to cryptic species and taxonomic over-lumping	Modelling the reconciliation of forest conservation, climate change research, and environmental education: Two Biosphere Reserves in the Congo Basin	Valuing existing data and information for lemur conservation	Influence of environmental parameters on the breeding of an endemic Malagasy fruit bat, <i>Rousettus madagascariensis</i> (Pteropodidae)	Comparing the patterns of population connectivity between a specialist and generalist rodent species in a coffee agroecosystem	Extinction risk assessment of the orchids of Madagascar
	Suzanne STAS	Olivier HARDY	Kim JACOBSEN	Alihasina RAKOTONDRAMANANA	Riana RAMANANTSALAMA	Beatriz Otero JIMENEZ	Landy RAJAOVELONA

Time	Saturday, August 3						
	Cristal	Emeraude	Grenat	Perle	Rubis	Saphir	Zircon
3:22 pm	In the eye of the storm: The effects of hurricane disturbance on forest recovery in a warmer world	Reconstructing the demographic history of a nocturnal primate, <i>Microcebus arnholdi</i> , during the late Quaternary	Impacts of lianas on secondary forest recovery in the Neotropics	Net primary productivity and its allocation in tropical old growth and logged-over forests in Ghana	Breeding biology and diet of the Madagascar Pond Heron, <i>Ardeola idae</i> , in monospecific colony at Sofia Lake in Bealanana, northern Madagascar	Butterfly diversity in the vanilla landscapes of northeastern Madagascar - opportunities for sustainable land use?	"Singing" in the rain and on the moon: The responses of Amazonian aerial insectivorous bat activity to weather conditions and moonlight
	Tana WOOD	Helena TEIXEIRA	Daisy DENT	Shalom ADDO-DANSO	Yverlin Zito PRUVOT	Annemarie WURZ	Giulliana APPEL
3:38 pm	Overcoming obstacles to rainy season fires in tropical savanna-forest mosaics	Amphibian and reptile diversity along a land-use gradient in NE Madagascar	The fate of tropical forests: High resolution global maps of deforestation risk and future forest cover	Effectiveness of collaborative management of protected areas: Some case studies from Lao PDR	Current status of Rufous-necked Hornbill from Arunachal Pradesh, India	Long-term responses of Tropical palms (Arecaceae) to hurricane disturbance	Effects of habitat fragmentation on ectoparasite communities in mouse lemurs (<i>Microcebus</i> spp.) and small mammals in northwestern Madagascar
	Joseph VELDMAN	Thio Rosin FULGENCE	Ghislain VIEILLEDENT	Phaivanh PHIAPALATH	Monali MHASKAR	Marcel REJMANEK	Frederik KIENE
4:00 pm 5:00 pm	COFFEE BREAK						
5:00 pm 5:30 pm	PRESENTATION OF ATBC 2020						
5:30 pm 7:30 pm	Presentation by current ATBC President & Closing Ceremony						
7:00 pm 10:00 pm	ATBC BANQUET						

Keynote lecture biography

Tuesday, July 30 5:30 PM - 6:30 PM Auditorium

KEYNOTE LECTURE 01: The history, current status, and future of the protected areas of Madagascar



Steven M.
GOODMAN

Steven M. GOODMAN has studied different aspects of the fauna of Madagascar for close to three decades and published numerous scientific articles and books on a variety of subjects concerning the island. He holds the post of MacArthur Field Biologist at The Field Museum of Natural History in Chicago and Scientific Adviser for the Association Vahatra in Antananarivo. For several decades he has made his home in Antananarivo. He was awarded the diploma of Professor Honoris Causa at The University of Antananarivo in 2013.

Wednesday, July 31 8:30 AM - 9:30 AM Auditorium

KEYNOTE LECTURE 02: Conservation in the remote western Amazon: A natural history museum putting science into the hands of decision-maker



Corine
VRIESENDORP

Corine VRIESENDORP directs the Andes-Amazon program in the Keller Science Action Center at The Field Museum of Natural History in Chicago. A field biologist with deep experience with the flora and vegetation of the remotest corners of the Western Amazon, Corine works closely with South American partners to bring science to bear on conservation and the quality of life of local people. Over the last 16 years, Corine and her team have provided social and biological science to support the creation of 18 new conservation areas in South America.

Wednesday, July 31 2:00 PM - 3:00 PM Auditorium

KEYNOTE LECTURE 03: From food chemistry to the evolution of primate communities: historical perspective, progresses, gaps and new approaches



Jörg U.
GANZHORN

Jörg U. GANZHORN is Professor at the University of Hamburg, Department Animal Ecology and Conservation. He has served as Chairman for the Madagascar section of the IUCN/SSC/Primate Specialist Group for 15 years. A zoologist by training, he has over 30 years experience conducting field work in Madagascar on forest and vertebrate ecology. His approach is to find ways on how to combine an understanding of species needs, ecosystem functioning and biodiversity conservation with economic development and secure livelihoods for the people in order to come to sustainable forms of land utilization and conservation in Madagascar.





Thursday, August 01 8:30 AM - 9:30 AM Auditorium

KEYNOTE LECTURE 04: Infrastructure Armageddon and the Future of Tropical Nature



Bill
LAURANCE

Bill LAURANCE is a Distinguished Research Professor and Australian Laureate at James Cook University. He has written eight books and more than 600 scientific and popular articles. He is a Fellow of the Australian Academy of Science and the American Association for the Advancement of Sciences, and former President of the Association for Tropical Biology and Conservation. His professional honours include the Heineken Environment Prize, the BBVA Frontiers in Conservation Biology Award, a Distinguished Service Award from the Society for Conservation Biology, and the Zoological Society of London's Outstanding Conservation Achievement Prize. He founded and directs ALERT—the Alliance of Leading Environmental Researchers & Thinkers—a science-advocacy group that reaches 1-2 million readers weekly. He is a four-time winner of Australia's Best Science Writing Award.

Fri, August 02 8:30 AM - 9:30 AM Auditorium

KEYNOTE LECTURE 05: Land use, climate change and tropical forest conservation



Kaoru
KITAJIMA

Kaoru KITAJIMA is a forest ecologist, with over 30 years of research experience, especially in tropical America and Asia. She has held faculty positions Kyoto University, Japan (2013-current) and University of Florida (1997-2013), and a research associate position at the Smithsonian Tropical Research Institute. As council member of the Association for Tropical Biology and Conservation (2006-2017, President in 2016), she has fostered networking of tropical forest scientists across disciplines. She received B.S. from the University of Tokyo, and M.S. and Ph.D from the University of Illinois. Her research interests encompass seedling regeneration ecology of tropical trees, ecophysiology and functional traits of woody species, forest tree responses to climate and other environmental factors, plant-soil interactions in ecosystem cycling of mineral nutrients. Although she has worked mostly in tropical forests in Latin America and Asia, she is happy to start a project in Ankarafantsika National Park in Madagascar this year. She is currently a member of the Board of Trustees of the Center for International Forest Research (CIFOR) and a lead author of the IPCC Special Report on Climate and Land.



Sat, August 03 8:30 AM - 9:30 AM Auditorium

KEYNOTE LECTURE 06: Why Emerging Conservation Leaders are our best hope for saving biodiversity



Jonah
RATSIMBAZAFY

Professor Jonah RATSIMBAZAFY - President of the Groupe d'Etude et de Recherche sur les Primates de Madagascar (GERP) is a Malagasy scientist in the scientific community at both the national or international levels. His efforts in environmental protection and conservation in Madagascar were internationally recognized. In parallel to his position as the President of GERP, an organization that advocates for the protection of Malagasy lemur species, he is also a Professor at the Mention of Anthropology and Durable Development of the University of Antananarivo and has been a mentor for many young Malagasy anthropologists. Pr. Jonah Ratsimbazafy holds a Master's Degree from the Anthropology Department of the University of Antananarivo and a Ph.D in Anthropology (focus in Primatology) from Stony Brook University New York. He is a very active researcher and has produced numerous scientific publications in the field of Anthropology. He also has been an active member of different national and international conservation organizations. He is the current Vice-Chair of Primate Specialist Group –Madagascar section of the IUCN/SSC, and also a current member of the editorial board of the International Journal of Primatology as well as the Madagascar Conservation and Development journal.

Sat, August 03 5:30 PM - 7:00 PM Auditorium

PRESIDENT KEYNOTE ADDRESS



Ahimsa
CAMPOS-ARCEIZ

Professor in Tropical Conservation Ecology, University of Nottingham Malaysia, Malaysia.

I am a tropical conservation ecologist with a keen interest in interdisciplinary approaches to conservation. I am also an optimist and passionate about education and empowering the coming generations of tropical conservationists, not only in academia but also in governments, NGOs, and the private sector. Most of my research focuses on the behavior, ecology, and conservation of Asian megafauna, particularly elephants, which I have studied for over 15 years. My research group studies the ecological function (seed dispersal, herbivory) of large animals in tropical rain forests and works on developing evidence-based strategies to promote human-wildlife coexistence. I live and work in Peninsular Malaysia, where I conduct most of my field research; previously I have conducted research in Sri Lanka, Myanmar, Singapore, Japan, Mongolia, and other Asian countries. Although I'm an ecologist by training, over the years my work has become highly interdisciplinary (from poo to governance!) because I believe that understanding and influencing human behavior is the main challenge for conservationists in the 21st century. I joined ATBC in 2006 and have attended a good number of ATBC's global and Asia-Pacific chapter meetings since then. I served as ATBC's Council member from 2015 to 2017 and in 2018 I chaired the 55th global meeting in Kuching.





Panel discussion

PANEL DISCUSSION 1: 2nd Edition, The Natural History of Madagascar

Date: July 31, 2019

Time: 12:00 pm - 2:00 pm

Chair: Steven M. GOODMAN
Field Museum of Natural History, Chicago, Illinois, USA

Room: Lunch room at CCI Ivato

PANEL DISCUSSION 02: Biotropica informal «meet and greet»

Date: August 01, 2019

Time: 6:30 pm - 7:30 pm

Chair: Jennifer POWERS
University of Minnesota, United States

Room: Grena at CCI Ivato

PANEL DISCUSSION 03: Research is one of the sectors with very limited funding in Madagascar by Tany Meva Foundation

Date: August 01, 2019

Time: 6:30 pm - 7:30 pm

Chair: Mihary RANDRIANARIVELO
Foundation Tany Meva

Room: Opale at CCI Ivato

PANEL DISCUSSION 4: Photographic guide book to the birds of Madagascar (Vorontsika eto Madagasikara)

Date: August 02, 2019

Time: 6:30 pm - 7:30 pm

Chair: Hajanirina RAKOTOMANANA
University of Antananarivo

Room: Cristal at CCI Ivato





WORKSHOPS OVERVIEW

PRE-CONFERENCE WORKSHOPS

July 30, 2019

How to get your paper published: skills for writing papers and the journey to publication	8:00 am 4:00 pm	Emeraude
Ecological and Epidemiological Mini Modeling in Madagascar	1:00 pm 4:30 pm	Grenat

How to get your paper published: skills for writing papers and the journey to publication

Organizers:

Rosie TREVELYAN, *Tropical Biology Association*

Onja H. RAZAFINDRATSIMA, *Department of Biology, College of Charleston*

Edu EFFIOM, *Cross River State Forestry Commission, Nigeria*

The workshop aims to give early career scientists – including graduate students – insights, knowledge, and skills in how to publish a scientific paper.

Practical exercises will cover scientific writing skills and how to structure a paper. Participants will also learn how the publishing process works, including advice on choosing journals, and how to avoid common pitfalls.

Ecological and Epidemiological Mini Modeling in Madagascar

Organizer:

Cara E. BROOK, *Department of Integrative Biology, University of California*

This workshop aims to provide participants with an introduction to the use of dynamical and statistical models in understanding ecological and epidemiological data. The course is modeled after E2M2: Ecological and Epidemiological Modeling in Madagascar, a ten-day workshop, which the instructors teach annually in Madagascar. In E2M2, students participate in a series of interactive lectures and computer-based tutorials and learn to fine-tune model-based research questions, develop clear model frameworks and corresponding equations, and fit models to real-world data. In E2M3, students will receive a basic introduction to subjects covered in greater depth in the full length course—specifically learning to distinguish between statistical and mechanistic modeling approaches and apply each technique to appropriate questions. Because time is limited, we strongly advise students to familiarize themselves with basic programming in R.



DURING THE CONFERENCE WORKSHOPS

August 1, 2019

National Geographic grants & grant writing workshop	12.00 pm 2.00 pm	Emeraude
Using aerial surveillance program and new technologies to improve natural resources management	12.00 pm 2.00 pm	Opale
Capacity building for conservation in Africa	12.00 pm 2.00 pm	Perle

National Geographic grants & grant writing workshop

Organizers:

Chloe CIPOLLETTA, *National Geographic Society East Africa Fund*

Jill SPEAR, *National Geographic Society Grant Program*

The National Geographic Society (NGS) provides grants for research, conservation, education, storytelling and technology in three focus areas: Wildlife, Human Journey and Changing Planet. The Society aspires to create a community of change, advancing key insights about the planet and probing some of the most pressing scientific questions of our time, all while ensuring that the next generation is armed with geographic knowledge and global understanding. Its goal is measurable impact: furthering exploration and educating people around the world to inspire solutions for the greater good.

The National Geographic Grants and Grant-Writing Workshop will be led by Chloe Cipolletta, NGS East Africa Program Director, and Jill Spear, NGS Early Career Program Officer.

Using aerial surveillance program and new technologies to improve natural resources management

Organizer:

Tojo Michaël RASOLOZAKA, *WWF Madagascar*

Madagascar has a unique natural heritage respect to the rest of the world with an exceptional rate of endemism. Different factors such as over-exploitation of natural resources, anthropogenic activities with negative ecological impacts, and climate change are generally considered being responsible for the loss of the biodiversity and for the degradation of natural ecosystems. To cope with those pressures and threats, the creation of protected areas has been considered as an adequate solution. However, implementing monitoring and surveillance activities is necessary for achieving optimal management efficiency and to avoid extinction of flagship species. Existing monitoring tools include an aerial surveillance program and terrestrial patrols using SMART (Spatial Monitoring and Reporting Tool). Since 2010, the goal of aerial surveillance has been to quickly localize and measure the evolution of annual deforestation in the island's different protected areas, but also by the implementation of patrols, to set-up a rapid and effective interventions at the sites where pressures occur and mostly related to forest clearing and fire. In addition, oblique aerial photography allows facilitating the dialogue between the practitioners of slash and burn agriculture and the actors of development and conservation to find sustainable responses to reduce deforestation while ensuring local development. The results prove that complementarity of aerial monitoring with terrestrial patrols contributes positively to reduce deforestation: for instance, in the Kirindy Mite National Park, the loss of forest was 5,224 ha in 2013 and only 770 ha in 2017, for the Amoron'Onilahy Protected Area, it was 202 ha in 2015 and 21 ha in 2018 and for Zamasy (a site managed by local communities through management transfer) 62 ha in 2012 and 487 ha in 2017.





Using aerial surveillance program and new technologies to improve natural resources management

Organizer:

Tojo Michaël RASOLOZAKA, *WWF Madagascar*

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Capacity building for conservation in Africa

Organizers:

Rosie TREVELYAN, *Tropical Biology Association*

Onja H. RAZAFINDRATSIMA, *Department of Biology, College of Charleston*

Edu EFFIOM, *Cross River State Forestry Commission, Nigeria*

This workshop aims to explore how we can achieve more impact in conservation in Africa from capacity building. We will explore current approaches to capacity building and measuring impact. This will be a forum where we share what challenges exist to achieving impact (including what is not working), so we can learn from real-life practice and consider how to adapt our approaches, innovate and scale up.





August 2, 2019

Building a civil society movement to safeguard marine resources	12.00 pm 2.00 pm	Grenat
Madagascar Lab&Kitchen by Cascoland – Installation	6.30 am 8.30 pm	Relais des plateaux venue, Ivato

Building a civil society movement to safeguard marine resources

Organizers:

- Audrey DELHOMME, *MIHARI Network*
- Marianne Haritiana RANDRIAMIHAJA, *MIHARI Network*
- Herimany EMOANTRA, *MIHARI Network*

Locally managed marine areas (LMMAs) are areas of ocean managed by coastal communities to help protect fisheries and safeguard marine biodiversity, often with the help of partner NGOs. LMMA Associations design and implement practical approaches to sustainable marine resource management such as marine reserves, alternative livelihood activities, mangrove restoration and the creation of dina. The role of the MIHARI Network is to support and promote the LMMA concept all around the country. Since 2012, it has been sharing good practices and success stories, exploring common issues and developing collaborative solutions, as well as building the capacity and skills of LMMA leaders. It has also become a vocal civil society movement advocating for the rights of small-scale fishers by giving them a voice that influences national policy and decisions relating to marine conservation.

The LMMA approach has been instrumental in inspiring locally led resource management and the exchange of good practice between coastal communities. The MIHARI Network has been supporting and promoting this approach through trainings, workshops, forums and advocacy, and its impact and successes are growing each year. Networking has therefore highly supported Madagascar’s LMMAs and it will continue as MIHARI keeps thriving and strengthening itself.

Madagascar Lab&Kitchen by Cascoland – Installation

Organizer:

- Mariana Martínez BALVANERA, *Cascoland group member*

The Cascoland Mobile Lab&Kitchen is an itinerant installation that aims to connect scientists, farmers, creatives and chefs in site specific locations, around the theme of sustainable food production systems. The Mobile Lab&Kitchen is basically an installation made up of a number of kitchen tables, a temporary meeting place and a co-creation space where science, farming practices, culinary practices and creative practices and audiences meet, cook, eat and discuss food. Like we all do around our kitchen tables worldwide. While cooking and eating together in an informal setting a different discourse will evolve. Not a one way lecture but a dialogue between on food from the different perspectives of farmers, scientists, chef cooks and creatives. With food as the common ground the Mobile Lab&Kitchen aims to create a network and bridge multi-stakeholder communities in countryside and urban locations in need of new insights on farming, food production and forest restoration.

In the setting of ATBC 2019, Cascoland proposes to create a temporary Lab&Kitchen to facilitate a trans-disciplinary exchange around a kitchen table, involving ATBC attendees, sustainable farmers, local chefs and researchers to address global challenges in food production. Locality is the most important aspect of the Mobile Lab&Kitchen. Cascoland will work with local resources: Madagascar’s locally produced foods, local products, creatives and academics. The Lab&Kitchen will be a work-in progress that requires the audience active participation. The actions will be a culinary lab where we will cook and eat together.





We will work with providers of locally produced foods and forest products and the cooking will be orchestrated by local Chefs. At the kitchen table, experts, farmers, scientists, academics, will discuss the relationship between food agriculture and climate change, food production, forest restoration and the importance of trans-disciplinary.

August 3, 2019

How do we improve forest habitat conservation and ecological restoration in Madagascar?	12.00 pm 2.00 pm	Saphir
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How do we improve forest habitat conservation and ecological restoration in Madagascar?

Organizers:

Josia RAZAFINDRAMANANA, *Ambatovy and University of Antananarivo*

Chris BIRKINSHAW, *Missouri Botanical Garden, Madagascar, Antananarivo Office*

Robert KOOYMAN, *Missouri Botanical Garden, Royal Botanic Gardens, Sydney, Macquarie University*

In Madagascar, high rates of forest clearing and high levels of endemism converge to place hundreds of species of plants and animals at risk of extinction. Across the country, forest clearing and burning put essential ecosystem processes and services into decline. This workshop aims to identify key causal factors and quantify what can be done to slow (or stop) the decline and successfully restore forest habitats. At local scales establishing baselines for conservation and restoration includes defining the diversity of undisturbed forests (surveys and alpha taxonomy) and the contribution of natural systems and ecological processes to economic and human well-being. At larger scales, remote sensing (satellite imagery) shows local impacts in landscape context and provides the means to estimate and model forest cover by habitat and community type through time. There is no doubt we have substantially improved our capacity to monitor forest decline, but the question is: have we similarly improved our capacity to protect and restore the forest? We ask: How can we effectively link science, natural history, local people, and the economy, to save the incredible biodiversity of Madagascar? And allied to that: How can we improve what we do to be more effective in ecological restoration? The primary aim of the workshop is to promote discussion and identify what we need to know, and do, to slow (or stop) the decline and conversion of native forest, and successfully protect and restore forest habitats for all species. Potential leaders of the workshop belong to research and conservation institutions as well as companies involved with extractive industries. All have extensive experience in habitat restoration, and the building of a forest future for biodiversity in Madagascar.





POST-CONFERENCE WORKSHOPS

August 4, 2019

Funnelling post-conference excitement into concrete next steps for achieving your career and research objectives	8:30 am 5:30 pm	Relais des plateaux venue, Ivato
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Funnelling post-conference excitement into concrete next steps for achieving your career and research objectives

Organizers:

Tuyeni MWAMPAMBA, *Universidad Nac Autonoma de Mexico*

Beth KAPLIN, *Center of Excellence in Biodiversity & Natl Res Management (CoEB), Rwanda*

Morilline Hariveloniaina Onja RAZANAMARO, *University of Antananarivo Madagascar*

The benefits of attending international scientific conferences are numerous and they should be long-lasting. Conferences provide you with an incredible platform to present your most recent work to international peers, they are an opportunity to learn about advances in your field, to connect to the community of scientists and practitioners in your field, to discuss and deliberate on exciting new topics and be inspired by keynote speakers and their work. It is far too easy, however, to underutilise the opportunities that conference interactions offer. All too often we return home charged by the conference experience, but in the absence of something specific, solid and attainable to concretize that excitement, it quickly fizzles, and the routine of our regular everyday work gradually takes over. This post-conference workshop is aimed at helping ATBC 2019 conference participants make the most of their attendance by immediately funnelling their excitement into very specific products and outcomes that benefit their research and career objectives. Aimed mostly at Africa and Madagascar Rufford Small Grant recipients (but open to any other ATBC attendant), the one-day workshop will help participants identify how to convert the new ideas and connections into meaningful research and writing collaborations, how to maintain collaborations across distance and over time, how to write compelling grant proposals for conservation research and communicate your findings effectively. Funded by the Rufford Foundation, this one-day training workshop will be conducted on Sunday, 4th of August 2019. Up to 27 participants can attend. Accommodation for one night and meals for the extra day will be available for all participants through the generous support of the Rufford Foundation.





ATBC CAPACITY BUILDING

July 25 - 27, 2019

Lemur Biology, Plant Ecology and Conservation in Madagascar	Association Mitsinjo Analamazaotra, Andasibe
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Field course: Lemur Biology, Plant Ecology and Conservation in Madagascar

Leave Antananarivo on July 24 and return on July 28.

Tropical ecosystems are diverse, have many unique features and provide important ecosystem services, but unfortunately, are among the most endangered systems across the globe. Madagascar hosts about 20% of the world's primates, which are found nowhere else in natural habitats. Unfortunately, however, more than 90% of these unique taxa are currently threatened to extinction. This field course is designed to equip students with various field techniques used in studying primate ecology in their natural environment. By targeting and training Malagasy students who are concerned about and conscious of the threats facing the nation's flagship species, this course aims to contribute to the long-term conservation of lemurs and their habitats. This field course in the rainforest of Andasibe in eastern Madagascar is designed to provide students with tools to conduct research in lemur and plant ecology, as well as to equip students with tools to help biodiversity conservation in the country. The field component will be conducted at Analamazaotra Forest Station. The main goal of this field course is to increase the capacities of Madagascar's future conservation leaders. It is also expected to foster long-lasting collaborations by networking with international scientists. With their acquired knowledge and skillset, the participants will be able to design research that will benefit lemur conservation in Madagascar. Instructions will be provided through short lectures and field studies, intended to introduce fundamental concepts, commonly used field techniques, and conservation applications.

July 30, 2019

Mentoring Circle meeting	12.00 pm - 2.00 pm 2.00 pm - 4.30 pm	Emeraude
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Mentoring Circle meeting

Organizer:

ATBC Mentoring Circle program

The ATBC will be sponsoring its third Mentoring Circle program this year during its annual conference held in Antananarivo, Madagascar in July 2019. The last two years of the program were very successful, proving to be a very helpful experience to both mentors and mentees.

The ATBC Mentoring Circle program is designed to bring together groups of 8-10 mentees with two mentors with similar career interests to promote career development in tropical biology and conservation. Specifically, we aim to support early career tropical biologists (i.e. graduate students and post-docs) by providing a network of individuals that can offer advice, best practices, and tools to achieve success.





August 1, 2019

Biotropica informal «meet and greet»	12.00 pm - 2.00 pm	Zircon
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Biotropica informal «meet and greet»

Organizers

Jennifer POWERS, *Biotropica* Editors

BIOTROPICA is a highly regarded source of original research on the ecology, conservation and management of all tropical ecosystems, and on the evolution, behavior, and population biology of tropical organisms. Published on behalf of the Association of Tropical Biology and Conservation, the journal's Special Issues and Special Sections quickly become indispensable references for researchers in the field.

BIOTROPICA publishes timely Papers, Reviews, Commentaries, and Insights. Commentaries generate thought-provoking ideas that frequently initiate fruitful debate and discussion, while Reviews provide authoritative and analytical overviews of topics of current conservation or ecological importance. The newly instituted category Insights replaces Short Communications. BIOTROPICA is now accepting Book Reviews.

August 1 - 2, 2019

ATBC Nature Art Station Madagascar 2019	12.00 pm - 2.00 pm	Rubis
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ATBC Nature Art Station Madagascar 2019

Organizers:

Patricia D. SAMPAIO, *NAS instructor*

Would you like to take a quick break to let nature inspire your creativity in a different way than to write papers and grants? How about have taken a short break to meet other ATBC attendees, in a relaxed and fun atmosphere? If you do, then come join us for some nature inspired art at ATBC's 2nd Nature Art Station (NAS). We plan to do Ceramic mug painting and rubber stamp carving (detailed description below). NAS will take place from the 2nd day of the ATBC annual meeting on time and room TBA.

August 2, 2019

Diversity and Inclusion panel	12.00 pm - 2.00 pm	Cristal
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Diversity and Inclusion panel: Mentoring to promote diversity and inclusion in tropical biology and conservation

Organizers:

Liza COMITA, *Yale University*

As an international society, ATBC has a commitment to diversity and inclusion, as well as capacity building in a way that promotes professional development, shared governance and decision-making, and welfare of the ATBC community. At this year's annual meeting in Antananarivo, Madagascar, the ATBC Diversity and Inclusion Committee will hold a lunchtime discussion focused on mentoring in the context of diversity and inclusion. This will be an informal discussion open to all ATBC meeting attendees interested in the topic. We will discuss how to get the mentoring you need at different career stages, as well as how to be a good mentor to others.



Poster Presentation List

Poster Number ID:	PresTitle	Presenting Author Names
PTS/001	Gene flow and mitochondrial D-loop diversity of Blue Duiker in the tropical forest of Moukalaba, Gabon	Etienne Francois AKOMO-OKOUE
PTS/002	Flood adaptations and sustainable use of trees in Amazonian floodplains	PIA PAROLIN
PTS/003	Species diversity and distribution of wolf spiders (Lycosidae: Araneae) in western and northern Mindanao, Philippines	Olga NUNEZA
PTS/004	Human disturbance mediates native-exotic carnivore interactions: Exploring spatio-temporal patterns across a gradient of rainforest degradation	Erin WAMPOLE
PTS/005	Interactions and pathogen transmission between sympatric carnivores in Madagascar	Fidisoa RASAMBAINARIVO
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PTS/206	Trophic interactions and resource availability regulate community structure of litter dwelling invertebrates	Sheila DE SOUZA
PTS/207	Back from the brink— saving critically endangered sportive lemurs (<i>Lepilemur tymerlachsoni</i>) endemic to Nosy Be, NW Madagascar	Valerie CLARK
PTS/208	An integrative overview of structure, dynamics, and functional traits in a central Amazonian forest	Sabrina GARCIA
PTS/209	Selection of nesting habitat for passerines in the humid fragmented forest of Bemanevika Protected Area, north central Madagascar	Armand BENJARA
PTS/210	Poaceae occurrence data mobilization and mapping: The GBIF BID Madagascar grass atlas	Henintsoa RAZANAJATOVO
PTS/211	We may be small but many: Mammal abundance compensation in half-empty Amazonian forests	Andressa SCABIN





SPEED Presentation List

DATE : Friday, August 02

TIME: 2:00 PM - 4:00 PM

ROOM: Grenat

Presentation Order	Title	Presenting Author Names
2:05 pm - 2:10 pm	Analysis of conflict between piscivorous birds and shrimp farming in Ecuador	Enrique DE LA MONTAÑA <i>Universidad Laica Eloy Alfaro de Manabí</i>
2:14 pm - 2:19 pm	The rise of commercial poaching in Namibia: A socio-economic perspective	Elizabeth NARO <i>Tanzania People & Wildlife</i>
2:23 pm - 2:28 pm	To build or not to build: Potential of narrow logging roads for climate change mitigation	Trisha GOPALAKRISHNA <i>The Nature Conservancy</i>
2:32 pm - 2:37 pm	Microhabitat preferences for affiliative behavior in two Endangered sifaka species	Meredith LUTZ <i>University of California, Davis</i>
2:41 pm - 2:46 pm	Dry season duration, soil type and period of active land use are the most important hindrances for secondary forest growth rates across Brazilian Amazon	Henrique Luis CASSOL <i>INPE</i>
2:50 pm - 2:55 pm	Effects of human-induced forest fires on the abundance of Jolly's Mouse Lemur in southeastern Madagascar	Pamela NARVAEZ-TORRES <i>University of Calgary</i>
2:59 pm - 3:04 pm	Conservation of the world's rarest duck, the Madagascar Pochard, <i>Aythya innotata</i> , and the state of Central High Plateau wetlands	Felix RAZAFINDRAJAO <i>Durrell Wildlife Conservation Trust</i>
3:08 pm - 3:13 pm	Linking biodiversity conservation and education: An exploratory research of education programmes implemented in protected areas of Madagascar	Aina Brias GUINART <i>Helsinki University</i>
3:17 pm - 3:22 pm	Isolation and characterization of lactic acid bacteria from the gut of grasscutters (<i>Thryonomys swinderianus</i>) in Ghana	Christopher ADENYO <i>University of Ghana</i>
3:26 pm - 3:31 pm	Low mitochondrial gene divergence in <i>Triops granarius</i> in Qatar	Shehroz RANA <i>Weill Cornell Medicine-Qatar</i>
3:35 pm - 3:40 pm	Population structure and gene flow of <i>Triops granarius</i> using MiSeq technology	Hiba NAVEED <i>Weill Cornell Medicine - Qatar</i>
3:44 pm - 3:49 pm	New records of polymorphic phenotypes in the Neotropical mammal fauna: Insights for evolutionary ecology and conservation	Lucas GONCALVES DA SILVA <i>Federal Rural University of Pernambuco</i>





ATBC 2019 – Day of Adventure

In partnership with the Local Organization Committee, Madagascar Tour Operators Association (TOP) is organizing a Day of Adventure (DOA) on Sunday, 4 August 2019.

- The Day of Adventure is free for the first 250 registered ATBC 2019 participants.
- For those that wish to take part in the Day of Adventure after the first registered 250 participants, we are asked to charge USD 50 per person. This based on a previous arrangement between TOP and ATBC 2019 local committee.

To participate, booking is required. When you fill in the ATBC 2019 registration form, it is necessary that you specify the tour you want to take part in. The choices include:

- DOA Ampananina
- DOA CITY TOUR
- DOA LEMURS PARK
- DOA Ambohimanga

DOA with fees

Registration and payment will be made on site, at the booth of TOP Madagascar until 02 August 2019. Participants should show their receipts before entering the bus on 4 August 2019.

Please find below the available places:

- Ampananina : 50 pax
- Ambohimanga : 50 pax
- City Tour : 54 pax

For more details, we invite you to visit booth #12 of TOP MADAGASCAR, or please check our website: <https://www.atbc2019.org/travel-information>

ATBC 2019 – Field Trips

ATBC 2019 Field Trips are organized in collaboration with the Madagascar Tour Operators Association (TOP). Interested participants are invited to register and to get more details for each tour, please check our website : <https://www.atbc2019.org/travel-information>

Alexandra Travel

- Discovering the Indri indri & Baobab : 5 to 12 August (8 Days)
- The largest Lemur & The city of The Thousand : 23 to 25 July (3 Days)
- The Spiny forest & THE dancing Sifaka : 24 to 27 July (4 Days)

Discover Madagascar

- Andasibe (3 days)
- Andasibe (4 days)

Giga Travel

- Diego Suarez-Ankarana-Ankify-Nosy Be, from 22 to 29 July OR 5 to 12 August (8 Days)





Madagascar Land of Wonders

Black lemurs of Andrafiarena & adventure in Ambohitra'Antsingy : 22 to 29 July OR 5 to 12 August (8 Days)

Tsingy of Bemaraha, lemurs and baobabs : 22 to 29 July OR 5 to 12 August (8 Days)

Madagascar Tourism Expeditions (MTE)

Discover Andasibe and Ranomafana rainforests (8 Days)

The East and the deep South : 5 to 13 August (9 Days)

Mercure Voyages

Ankarafantsika_Antsihiy : 22 to 27 July (6 Days)

Tsingy road : 22 to 27 July (6 Days)

Mil'on Tours

Andasibe_Antsirabe_Morondava_Tsingy : 21 to 29 July OR 5 to 13 August (9 Days)

Ramartour

Kirindy Mitea : 5 to 14 August (10 Days)

Ranomafana : 5 to 14 August (10 Days)

Transcontinents

Fort Dauphin : 5 to 10 August (6 Days)

Fort Dauphin : 5 to 12 August (8 Days)

Za Tours

Ankarafantsika and Andasibe : 5 to 12 August (8 Days)

Antsiranana Andasibe : 5 to 12 August (8 Days)





On behalf of the Organizing Committee of ATBC 2019, we would like to express our special thanks and sincere gratitude to these following partners and organizations for their tremendous support and commitment in making this 56th annual meeting a great success.

THANK YOU!

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L'Ambassade de France à Madagascar est le principal Partenaire Technique et Financier de l'Enseignement Supérieur et de la Recherche malgache.

Depuis des décennies, l'Ambassade de France développe plusieurs formes de soutien : octroi de bourses du gouvernement français afin de permettre à des jeunes chercheurs et chercheurs confirmés d'effectuer des mobilités en France dans des laboratoires de renommées internationales ; mise en place de projets visant à soutenir l'effectivité du système LMD, appui au développement des technologies de l'information et de la communication, renforcement des capacités des enseignants – chercheurs et chercheurs – enseignants, valorisation de la recherche malgache, etc.

Grâce aux établissements français de recherche présents à Madagascar, notamment l'Institut de Recherche pour le Développement (IRD), le Centre International de Recherches Agronomiques pour le Développement (CIRAD), le Muséum National d'Histoire Naturelle (MNHN), la France constitue le partenaire incontournable de la recherche malgache.

Parmi les axes d'intervention de la France en termes de soutien à la recherche malgache, la biodiversité tient une place prépondérante. Consciente de l'extraordinaire potentiel de la biodiversité à Madagascar, la France a entrepris de nombreuses actions en faveur de la préservation et de la valorisation de celle-ci.

Ainsi, à titre d'exemples, la France a soutenu la tenue du 5^{ème} Forum de la Recherche, organisé par le Ministère de l'Enseignement Supérieur et de la Recherche Scientifique en 2017, consacré à la biodiversité (biodiversité et Objectif du développement durable, biodiversité marine et agrobiodiversité) ; la France finance le Programme Sud Expert Plantes Développement Durable (SEP2D), centré sur la gestion durable de la biodiversité végétale, dont Madagascar est membre ; etc.

La France est profondément convaincue de la nécessité impérieuse des recherches menées en faveur de la biodiversité et des services fournis par les écosystèmes (publication d'un rapport historique lors de la 7^{ème} plénière de l'IPBES à Paris en avril 2019).

Dans son plan d'action national biodiversité, adopté le 4 juillet 2018, la France s'est engagée à faire de la biodiversité une priorité environnementale de son réseau diplomatique pour les deux années à venir afin d'obtenir un résultat ambitieux et marquant à la CoP15 à Chine. Pour réussir cette ambition, la France portera la biodiversité à haut niveau sur l'agenda politique mondial d'ici 2020, en mettant à profit de grands événements politiques internationaux tels que la quatrième Assemblée des Nations unies pour l'environnement en mars 2019 à Nairobi, le G7 dont la France assurera la présidence et le G20 et enfin le Congrès mondial de la nature organisé par l'UICN et que la France accueillera à Marseille en 2020.

La 56^{ème} Rencontre annuelle de l'Association for Tropical Biology and Conservation (ATBC) constitue un évènement majeur pour Madagascar, et participera à la mobilisation internationale en faveur de la biodiversité.



Parks and reserves in Madagascar, last resorts for a unique biodiversity

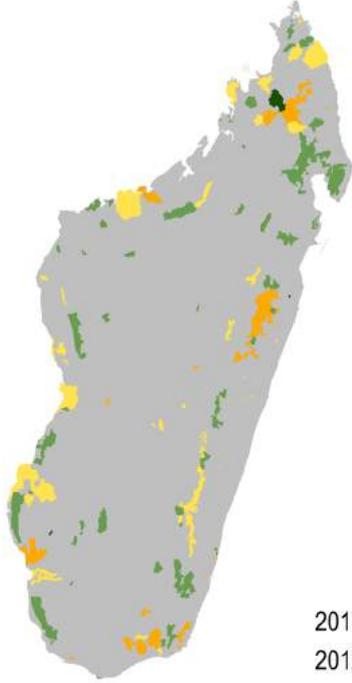


Figure 1. Distribution of the parks, reserves and other protected areas in 2019.

IUCN categories
 ■ I and III
 ■ II and IV
 ■ V
 ■ VI

Madagascar has an extended network of protected areas with various IUCN status (Figures 1,2). The location of these areas is to a high degree congruent with remaining forests covering some 15% of the island (Figure 3).

Forests ecosystems are under high threat.

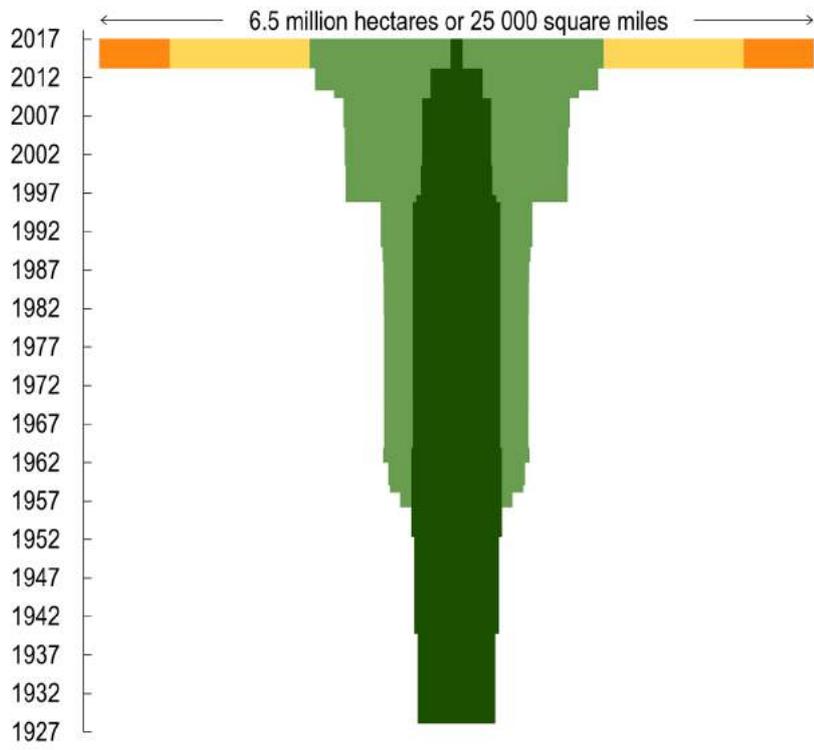


Figure 2. Protected areas and the International Union for Conservation of Nature (IUCN) categories. From Strict Nature Reserve (IUCN Category I) in 1927 to a mosaic of National Parks (IUCN Category II), Special Reserves (Category IV), protected landscapes (Category V) and protected areas with sustainable use of natural resources (Category VI)

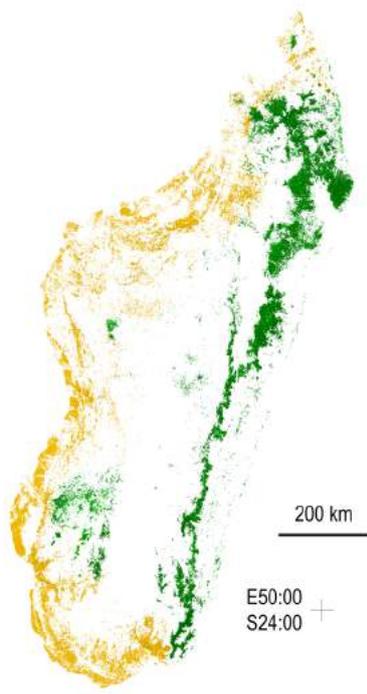


Figure 3. Distribution of the main types of forests.

■ Humid forests
 ■ Dry forests

Forests are home to over 80% of the biodiversity of Madagascar.



Tools like SMART or novel ones like the GLAD alerts on Forest Watcher allow the anticipation of forest fires thus guiding management actions to address potential deforestation.

