

Tropical Biology:

Linking Tropical Biology with Human Dimensions



Program

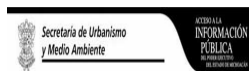
The Annual Meeting of the Association for Tropical Biology and Conservation
July 15-19 2007 Morelia, Mexico

Hosted by

Centro de Investigaciones en Ecosistemas
Universidad Nacional Autónoma de México

Universidad Michoacana de San Nicolás de Hidalgo, México

Sponsored by





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INTRODUCTION

Introduction

We are honored to host the annual meeting of the Association for Tropical Biology and Conservation 2007 in Morelia, Michoacán, Mexico. This is a record year for ATBC, we received more than 700 contributions from all the tropical regions of the world. These include 222 presentations in 23 symposia, 226 presentations in 41 contributed oral sessions and 204 posters. There will be 10 simultaneous sessions during the morning and afternoon during the four days of the meeting. Approximately 60% of these contributions are related to genetics, ecology, evolution, systematics, and taxonomy and about 40% involve issues related to human dimensions of tropical biology. A special panel will meet to address issues related to the role of women in tropical biology. In addition, there will be two workshops, one on the use of stable isotopes in tropical biology and another one on acoustic methods for bat monitoring.

A special effort was made to enrich the meeting with a variety of keynote lectures that will be delivered by outstanding academic leaders representing diverse fields. We have two keynote speakers scheduled for each day. These speakers will address topics related to evolution and conservation genetics, ecological theory, politics and agroecosystems, evolution and conservation of plant pollinator systems, and linking tropical biology with human dimensions.

This year we have the honor of hosting delegates from 34 countries, from five continents and 365 academic institutions. Thirty three percent of the delegates are masters and PhD students. In sum, this year's meeting reflects a very diverse scientific society that is represented by academics from all over the world coming from many different cultures and presenting studies from many different topics.

Understanding the origin, evolution, and maintenance of tropical biodiversity, and the ecosystems they constitute continues to be a big challenge for tropical biology. Anthropogenic effects on such ecosystems, and the human dimensions (social, cultural, and economical) that act as drivers of change add an enormous complexity to the urgent task of conserving, using, restoring, and managing tropical ecosystems. Based on the mission, objectives and principles of ATBC, the meeting in Morelia will pursue key research avenues reviewed by Bawa et al (2004, *Biotropica* 36: 437-446) in "Beyond Paradise". Our goal is to help link tropical biology with human dimensions. The meeting will cover a wide array of basic and applied research topics on tropical biology and conservation, including: ecology and conservation of tropical vertebrates and arthropods, ecology of seed dispersal, ecosystem services, ethnobiology, evolution and genetic diversity of plants, forest fragmentation, forest management and selective logging, global change in tropical ecosystems, plant animal interactions, human development and sustainability, use of non-timber products, litterfall and soil ecology, phylogeny and phylogeography of plants, plant physiological ecology, restoration of tropical ecosystems, and social and economic drivers of change in tropical ecosystems.

As an introduction for the incoming members and participants, we would like to let you know that The Association for Tropical Biology and Conservation (ATBC) was founded in 1963. It is international in scope, membership, and objectives, functioning as a global multi-faceted body to promote research, education, conservation, and communication of tropical biology and also to foster the exchange of ideas among biologists working in tropical environments. The 2007 annual meeting in Morelia, Mexico, is hosted by the Centro de Investigaciones en Ecosistemas (CIEco) of the Universidad Nacional Autónoma de México (UNAM). The venue will be in the Centro Cultural Universitario of the Universidad Michoacana de San Nicolás de Hidalgo and the Colegio Primitivo de San Nicolás de Hidalgo, both historical buildings in Morelia.



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Morelia, recognized as a Heritage of Humanity by UNESCO, is one of the most beautiful colonial Spanish historical cities (founded 465 years ago) in the Americas (www.visitmorelia.com). The city was settled in the valley of Guayangare (1,950 m.a.s.l), where in the sixteenth century Purepecha people established the oldest Guayangareo town. After the Spanish colonization in 1535, Guayangareo transformed into the city of Valladolid, in honor of the city with this same name in Spain. When Mexico became independent from Spain, the name of the city was changed to Morelia as a tribute to José María Morelos, a major leader in the war of independence from Spain. At present, Morelia is a vibrant city, full of cultural and educational activities. It is the center of the Purepecha culture which is displayed in an enormous diversity of local crafts and art made by people living in several beautiful villages surrounding Morelia and the lakes of Cuitzeo, Pátzcuaro, and Zirahuén. Several vegetation types are found around Morelia including fir, pine, oak, and tropical dry forests. Toward the Pacific coast, and just three hours from Morelia by car, highly diverse tropical semideciduous and dry forest formations can be found.

The Centro de Investigaciones en Ecosistemas (CIEco) of the Universidad Nacional Autónoma de México (UNAM), was created in May 2003 (www.oikos.unam.mx). The mission of CIEco is to conduct research and provide education about ecosystem management with the perspective of providing scientific bases for the sustainable development of societies. CIEco uses an interdisciplinary approach, joining ecological, social, and economic perspectives. This research institute provides educational opportunities for both undergraduate and graduate students. The undergraduate program in Environmental Sciences (www.oikos.unam.mx) is directed to train students for interdisciplinary work in ecosystem management. A wide range of research lines are conducted including population genetics, population, community and ecosystem ecology, global ecology, geocology, science communication and environmental education research. Researchers and students carry out group projects conducted in the major terrestrial ecosystems in Mexico including tropical dry forest (Chamela, Jalisco), tropical rain forest (Chajul, Chiapas), temperate forest (Tanzitaro, Michoacán), arid shrub and cacti forest (Tehuacán, Puebla), and an urban ecosystem (Cuitzeo Basin, Morelia). Researchers at CIEco are also involved in several projects in other countries including Costa Rica, Cuba, Brazil, Peru, and Venezuela.

ATBC goes Carbon Neutral

In order to comply with concerns about the ecological and environmental effects of global climate change produced by the emission of green-house gases, Morelia represents the first ATBC meeting that will be carbon-neutral. This initiative has been supported by the generous economic support from the Environmental Ministry of Mexico (SEMARNAT), and was estimated using the information provided by the Edinburgh Centre for Carbon Management Ltd (<http://www.eccm.uk.com>). We have calculated that the Morelia meeting will liberate to the atmosphere approximately 1,070 tons of carbon dioxide. This amount was estimated taking into account plane and terrestrial travel of delegates registered to attend the meeting, as well as the electricity and waste materials that will be consumed by visiting delegates in hotels and in the meeting activities (for details click here). The great majority of these emissions will be due to delegate travels (99.8%). To be carbon-neutral, we have the goal of offsetting 535 tons of carbon dioxide in Mexico. In Mexico the "Scole té" project is developing such programs at several rural localities in Chiapas and Oaxaca (click here for details). Based on the cost of carbon dioxide sequestering of these projects in Mexico we need \$10,836 to accomplish this goal. Given that we expect 800 delegates at the Morelia ATBC meeting, we are asking each delegate to donate carbon offsetting fees as follows: \$20 US dollars for delegates coming from



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outside of Mexico and \$5 for people within Mexico. We understand that not all delegates will be able to donate the carbon-neutral fee. Therefore, we encourage delegates with the possibility of contributing with donations to consider these fees as a minimum. The collected money will be used to support carbon sequestering programs in degraded lands of tropical dry forests in México. The donation may be paid during registration. We thank everyone for their participation and support of this program and hope that this is the first of many carbon-neutral meetings that ATBC will host.

Additionally, accompanying this carbon-neutral initiative the meeting organizers at Morelia are making their best efforts to reduce as much as possible the use of non-recyclable materials. For example, you will receive meeting kits made locally with natural products, and locally produced coffee mugs will be washed instead of using disposable cups.

Dr. Mauricio Quesada
Centro de Investigaciones en Ecosistemas
Universidad Nacional Autónoma de México
Organizer of ATBC2007

Dr. Miguel Martinez-Ramos
Centro de Investigaciones en Ecosistemas
Universidad Nacional Autónoma de México
Organizer of ATBC2007



INTRODUCTION

ATBC 2007 Meeting

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William F. Laurance, Smithsonian Tropical Research Institute, Panama

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Marielos Peña-Claros, Proyecto BOLFOR, Bolivia

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Jose Sarukhán, Universidad Nacional Autónoma de México, México

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Joseph Wright, Smithsonian Tropical Research Institute, USA

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INTRODUCTION

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Members:

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Secretariat for ATBC 2007

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INTRODUCTION

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Arturo Sanchez-Azofeifa, University of Alberta, Edmonton, Canada; Nigel Store, University of
Melbourne, Australian.



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Registration

Registration to the meeting will start on Sunday July 15 from 10:00 to 18:00 and will continue with the same schedule through the week. The Registration room is in the second floor of the Colegio Primitivo de San Nicolas de Hidalgo (please see map).

Program Organization

The ATBC meeting will have 4 types of presentations: Keynote talks, Symposia, Oral talks, and Posters.

Nine Keynote talks will be given by renowned scientists. Two talks per day, one at 8:30 and the other one at 18:30 from Monday 16 to Thursday 19. There will be one more talk on Sunday evening at the opening ceremony.

Symposia and Oral presentations will be held each morning and afternoon from Monday July 16 to Thursday July 19 from 10:00 to 12:30 and from 14:00 to 16:20.

Posters will be shown all day everyday according to the study topics indicated in the program. Each presenter will set up their posters at 9:30 am on the day of the presentation but will formally present his/her work from 16:00 to 17:45.

Each participant will receive two documents after registration. The first one contains the main general program of the meeting and a detailed schedule with the Symposia, Oral presentations and Posters that includes the day, time, title and authors of each contributions. The second document contains the abstracts of each contribution organized in the order of presentation by day and time. Both documents also include several maps that will help locate the buildings and the rooms where contributions will be presented. Both documents have an author index at the end of each book. This author index is mainly organized by the last name (first last name for compound last names), however due to inconsistencies in the order of entering the name information in the registration process, sometimes it is organized by first name. If you do not find the person you are looking for by last name, please try by first name. We apologize for this inconvenience.

Instructions for Presenters

The presenting author of each talk for symposium or oral presentation should turn in their talk at the registration desk the day before their talk is to be presented. The following format should be used for the name of the file. First put S or O indicating Symposium or Oral Session. Follow this with an abbreviation of the first 3 main words of the title of the symposium or oral session. Finally, put the last name of the first author of the presentation and the hour of your presentation. Example: OEcolConsMamStoner10:00. Please comply with this labeling system, as it will greatly help in the organization of each session and reduce the amount of errors.

Please put posters up in the morning of the day of your poster presentation. Posters will be placed in the hallway of the Colegio Primitivo de San Nicolás de Hidalgo. The posters will remain up all day long. We ask that all authors are present at their posters 16:20-17:45. Posters must be taken down at the end of the session.



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Special Events

Urgent Action in Tropical Conservation

On Tuesday July 17 at night, right after the keynote talk, everybody is invited to attend a special meeting of the Conservation Committee of ATBC at the main Auditorium of the Centro Cultural Universitario. We would like to discuss the development of campaigns for the protection and conservation of The Chamela-Cuixmala Biosphere Reserve and for the protection of forests in Indonesia.

The Chamela-Cuixmala Biosphere Reserve is one of the most important protected areas and well studied tropical dry forests in the neotropics. Because of its outstanding biodiversity, the Reserve is part of the World Network of Biosphere Reserves of UNESCO's Man and the Biosphere Program (MAB), and part of RAMSAR network of Wetlands of International Importance. On November 22, 2006, the Mexican Government authorized two tourist developments to build next to the Chamela-Cuixmala Biosphere Reserve along the coast in the state of Jalisco. A Technical Panel of scientific researchers from the Universidad Nacional Autónoma de México (UNAM) conducted a detailed analysis of the Environmental Impact Assessment Reports of these tourist developments and concluded that both projects would have serious negative impacts on the integrity and ecological functioning of this important Biosphere Reserve as well as other nearby protected areas and the ecosystem of the region as a whole. These developments also threaten the stability and equitable social development of the human populations in the region (<http://www.ibiologia.unam.mx/reserva/manifiesto/ingles.html>).

We also will discuss urgent conservation issues in Indonesia. We hope to see you at this meeting to help us with both of these important conservation issues.

Cultural Activities

The organizing committee has scheduled a variety of unique and enjoyable cultural activities that are described below

Sunday, July 15 18:00- Opening Ceremony, Mixer, Traditional Folkloric Dance Show

The opening ceremony will begin on Sunday July 15 at 18:00 in the Centro Cultural Universitario of the Universidad Michoacana de San Nicolás de Hidalgo. Then, we will move to the Conservatorio de las Rosas for the mixer, traditional dances of Michoacan (the Mexican state of which Morelia is the capital) will be performed by the outstanding folkloric group of the Universidad Michoacana de San Nicolás de Hidalgo.

Monday, July 16 20:00- Latin American Music

On Monday night everybody is invited to a concert of Latin-American music by "Bola Suriana" at 20:30 in the Auditorium of the "Conservatorio de las Rosas", one of the first music conservatories founded in the Americas.



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Tuesday, July 17 21:00-Symphony Orchestra Music

Tuesday night will feature classical and organ music performed by the Symphony Orchestra of the Universidad Michoacana de San Nicolás de Hidalgo at 21:00 in the main Cathedral of Morelia.

Wednesday, July 18 20:45

The ATBC Banquet will take place at 21:00 at the Governor's Palace, a beautiful and historical building where you will find unique murals from Alfredo Zalse, an outstanding Michoacan artist and disciple of the renowned Mexican painter Diego Rivera. Before the banquet, a special show of fireworks will take place at the Cathedral at 20:45. During the banquet, ATBC award winners, Prof. Sir Ghillean Tolmie Prance and Dr. Arturo Gomez-Pompa and out-going and incoming presidents will deliver their speeches.

Thursday, July 19, 21:00 - Gran Fiesta Final

Everybody is invited to join us for the farewell party to be held at the Casa de Gobierno of the Governor of Michoacan. Be sure and bring your dancing shoes!!

Also please remember, lunch from Monday to Thursday as well as the banquet are included in your registration fee.

The role of women in tropical biology

ATBC members Priya Davidar, Julie Denslow, Meg Lowman, and Robin Chazdon accompanied by our President-elect Pierre-Michel Forget, will discuss the current status of women in ATBC and beyond. Concern about this issue was catalyzed by the recent ATBC-Asian Chapter meeting, where it was admitted that women were under-represented in numbers proportional to our membership in some high-visibility activities of the society. Tuesday July 17 at the Hotel Virrey de Mendoza, room "Salón Los Escudos" 12:30.

ATBC council and business meeting

The meeting of the ATBC council will take place at Hotel Virrey de Mendoza, room "Salón Los Escudos" from 9:00 to 17:00 on Sunday July 15.

Workshops

The first workshop will begin at the Colegio Primitivo de San Nicolás de Hidalgo in the Auditorium Aula Mater at 11-13 h / lunch break / 15-19 h on Sunday July 15. No fee is required, but please sign up at the registration desk.

The Use of Stable Isotopes in Tropical Biology/ El Uso de Isótopos Estables en Biología Tropical

This workshop will be held in Spanish/This workshop will be held in Spanish

Instructors/Instructores:

Dr. Louis Santiago
Department of Botany and Plant Sciences, University of California Riverside



INTRODUCTION

Dr. Erick De la Barrera

Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México

Stable isotope analyses are an ecological tool that can reveal how animal and plant resources move within ecosystems. Nevertheless, isotopic studies are relatively scarce for tropical environments. In this introductory Workshop the basics of stable isotopes will be presented. Also, particularities and applications will be discussed for Oxygen, Hydrogen, Carbon, and Nitrogen.

Los análisis de isótopos estables son una herramienta ecológica que revela como los recursos de animales y plantas se mueven dentro de los ecosistemas. Sin embargo, los estudios isotópicos para ambientes tropicales son relativamente escasos. En este Taller introductorio se presentará a los asistentes los conceptos básicos del estudio de isótopos estables y se discutirán con las particularidades y aplicaciones del estudio de isótopos de Oxígeno, Hidrógeno, Carbono y Nitrógeno.

The second workshop will begin at the Colegio Primitivo de San Nicolás de Hidalgo in room Cervantes Saavedra at 20:00 on Monday July 16. No fee is required, but please sign up at the registration desk. We must know how many people are attending because we will be doing a hands-on demonstration in the Morelia Zoo and need to know how many people will be going.

Bat Detection using Ultrasonic Techniques with Emphasis on Heterodyne and Time-Expansion Detection Methodologies

Kelly Wolcott & Kevina Vulinec

Delaware State University

Department of Agriculture & Natural Resources

Studies of bat ecology and conservation are increasingly impacted by technological advances, and echolocation studies are now a prominent feature in almost all bat research. The objective of this workshop is to introduce and summarize recent techniques in acoustic bat research. In this workshop we will discuss how bats use echolocation to navigate, communicate, and capture prey. We will provide an overview of current detection techniques and compare the different modes of echolocation detection, recording, and data analysis. Special emphasis will be placed on the use of Pettersson ultrasonic detectors (in particular, the D240x model) which records calls in heterodyne and time-expansion modes, and the SonoBat® analysis software. In addition, we will discuss some low-cost alternative methodologies for bat studies in the tropics.



INTRODUCTION

AWARDS

During the banquet two colleagues will receive the ATBC Honorary Fellow for their outstanding contribution to the development of tropical biology, Prof. Sir Ghilleen Tolmie Prance and Dr. Arturo Gomez-Pompa.

After completing a first degree and a doctorate in botanical taxonomy in Oxford, Prance joined the New York Botanical Garden in 1963 as a research assistant, gradually working his way up to director of research, then vice-president of research, and finally senior vice-president for science in 1981. After 25 years, he left the Garden in 1988 to become director of Kew Royal Botanical Gardens. He inspired Kew to focus on serving the needs of the world community by supporting research and action on conservation and the sustainable use of plants. A Fellow of the Royal Society since 1993, Prance was knighted in July, 1995. While working in New York, he spent much of his time leading botanical expeditions in the forests of the Brazilian Amazon, and this has inspired his varied research interests in many aspects of tropical rain- forest ecology, vegetation, and biogeography. He has published papers on subjects that range from fruit dispersal, pollination by monkeys, the biology of Amazonian water lilies, the genetics of the Brazil nut, ethnobotany, and the chemotaxonomy of the Chrysobalanaceae. Perhaps it is this unusually broad base to his research that has brought him such a prominent position as a proponent for the conservation of biodiversity in general and that of the rain forests in particular. Dr. Gómez-Pompa's lifetime of work has been dedicated to tropical ecology, the conservation, restoration, and management of tropical forests, ethnobotany, and floristics. He was one of the first voices to draw attention to the problem of rain forest destruction and offer solutions for this critical environmental problem. His discovery of *Theobroma cacao* (chocolate tree) in the ancient sacred groves of the sinkholes of Yucatan brought to light aspects of agricultural knowledge and practices of the Maya civilization, which further paved the way for research in the domestication of tropical trees. His explorations also led to the discovery of new tropical taxa. Dr. Gómez-Pompa was one of the first to recognize the potential value of computers in tracking botanical information when, in the 1960s, he created a database for the Flora of Veracruz project, which contains data gathered during decades of research and which is still being expanded to this day. This became the model for the databases that now exist at many respected botanical institutions. In 1975, Gómez-Pompa founded the influential National Research Institute of Biotic Resources (INIREB) and pioneered research in agroecology, analyzing the agricultural techniques used by people inhabiting the rain forests in his native country of Mexico. He has served as the Advisor to the President of Mexico on Tropical Ecology Issues, as well as recently being named a member of the Board of Governors of the University of Veracruz. His work with the United Nations includes having held the post of Chairman of the International Coordination Board of UNESCO's Man and the Biosphere program, which promotes international cooperation and a focus for the coordination of related programs aimed at improving the management of natural resources and the environment.

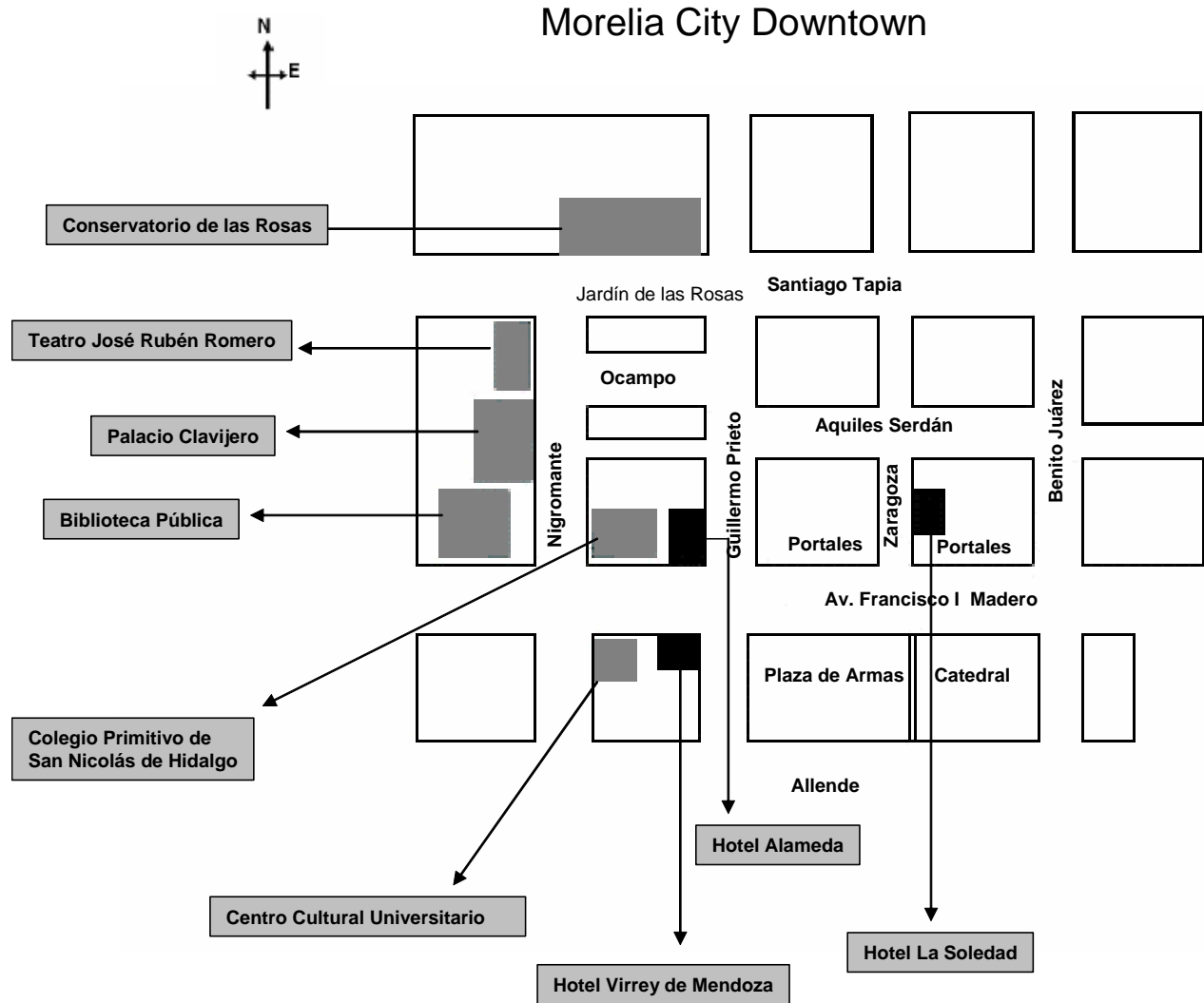
Special Awards of ATBC 2007

- The Alwyn Gentry Award was established to recognize outstanding student research presented at the ATBC annual meeting. Two awards will be given, one for the best student oral presentation, and one for the best student poster.
- The Luis F. Bacardi Advances in Tropical Conservation Award for young conservation scientists. This award is provided to the ATBC by an endowment from the Lube Bat Conservancy, and is designed to foster high-quality conservation science in the tropics.



INTRODUCTION

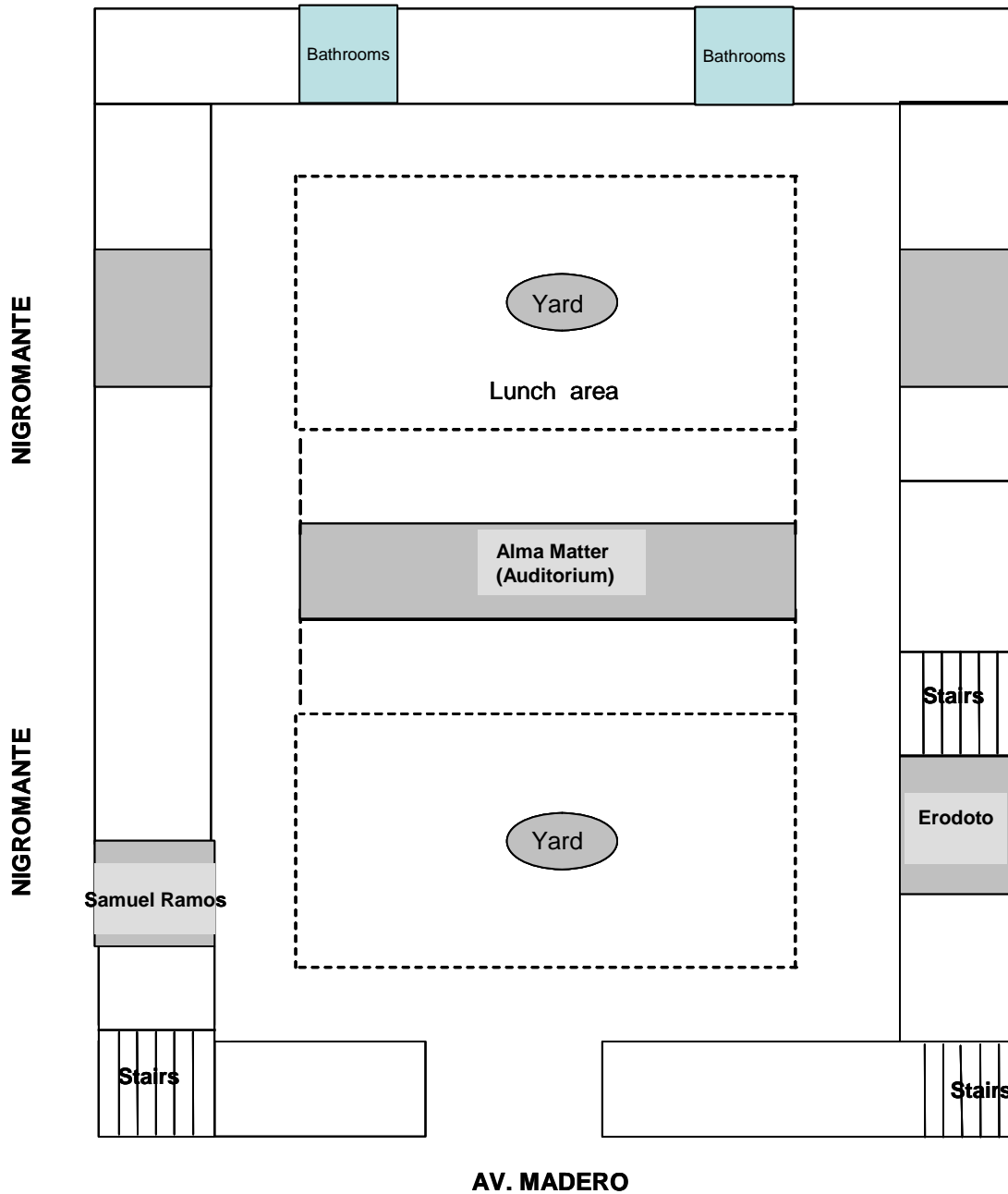
MAPS





INTRODUCTION

FIRST FLOOR

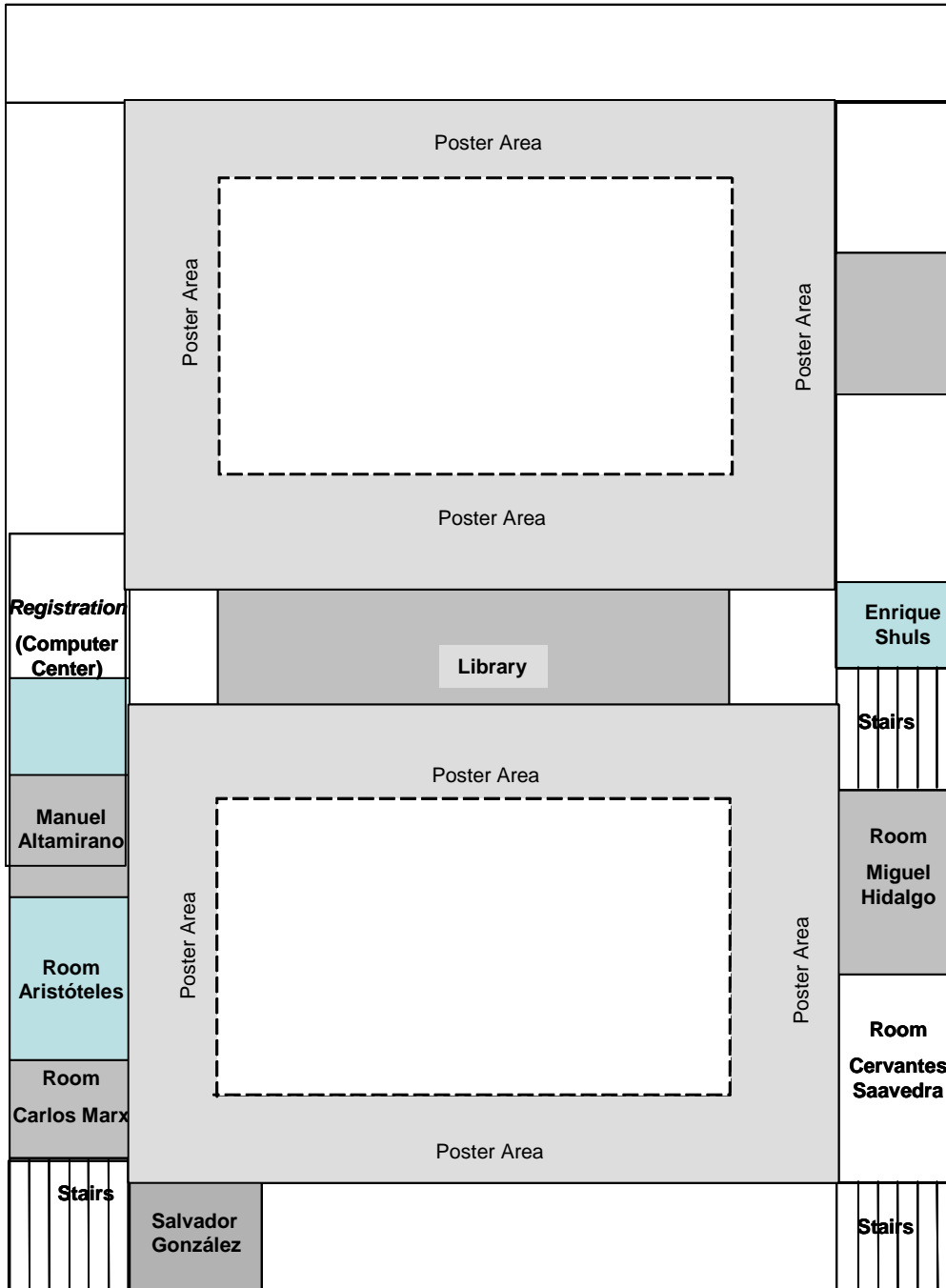


Colegio Primitivo de San Nicolás de Hidalgo



INTRODUCTION

SECOND FLOOR



Colegio Primitivo de San Nicolás de Hidalgo



Keynote Lectures at the ATBC 2007

Keynote Lectures at the ATBC 2007

All of the keynote talks will be presented in the Centro Cultural Universitario of the Universidad Michoacana de San Nicolás de Hidalgo.

Sunday July 15, 19:00

Challenges for Tropical Biology in the context of the future of Mexico and the world

Dr. José Sarukhán

Instituto de Ecología

Universidad Nacional Autónoma de México

Monday July 16, 8:30

Unshackling Tropical Biology

Dr. Kamaljit S. Bawa

Distinguished Professor

Department of Biology

University of Massachusetts Boston

Monday July 16, 18:00

Contradictions between Conservation and Use of Tropical Ecosystems in Mexico

M. en C. Julia Carabias

Facultad de Ciencias, UNAM

Universidad Nacional Autónoma de México

Tuesday July 17, 8:30

Ecological theory, political reality and the role of agroecosystems in a new conservation paradigm

Dr. John Vandermeer

Professor

Department of Ecology and Evolutionary Biology

University of Michigan

Tuesday July 17, 18:00

Evolutionary conservation science in practice: designing evolutionary and ecological landscapes of the future

Dr. Victoria Sork

Professor and Chair,

Department of Ecology & Evolutionary Biology and Institute of the Environment

University of California, Los Angeles

Wednesday July 18, 8:30

Recent Developments in Conservation Genetics

Dr. Philip Hedrick

Ullman Professor of Biology

Life Sciences Faculty

Arizona State University



Keynote Lectures at the ATBC 2007

Wednesday July 18, 18:00

Floral Specialisation: From developmental precision to ecosystem services

Dr. Scott Armbruster

Professor

University of Portsmouth

School of Biological Sciences

Thursday, July 19, 8:30

The Urbanizing Amazon: Reconfiguring resource use and transforming landscapes

Dr. Christine Padoch

Matthew Calbraith Perry Curator

Institute of Economic Botany

The New York Botanical Garden

Thursday, July 19, 18:00

Social, Economic and Political Drivers of Land Use Change in Borneo: Effects on Rural Livelihoods, Carbon Emissions and Biodiversity

Dra. Lisa M. Curran

Professor & John Musser Director, Tropical Resources Institute

Yale School of Forestry & Environmental Studies

Yale University



PROGRAM

| SYMPOSIA (MORNING) | | | | |
|---|---|--|---|--|
| | MONDAY JULY 16 | TUESDAY JULY 17 | WEDNESDAY JULY 18 | THURSDAY JULY 19 |
| Room 1: Teatro José Ruben Romero Building: Teatro José Ruben Romero (Auditorium) | #1 Aide The influence of human demography and agriculture on natural systems in the Neotropics | # 8 Chazdon Managing Tropical Agricultural Landscapes to Enhance Biodiversity | # 12 Balvanera Approaches to the study of ecosystems services provided by tropical systems | # 19 Born Natural Services in local context: Opportunities and barriers to uptake |
| Room 2: Conservatorio de las Rosas (Auditorium) Building: Conservatorio de las Rosas | #2 Vulinec Primates at Risk: Conservation Concerns and Indigenous Anthropogenic Landscapes | # 9 Solorzano Conservation Genetics of Tropical Vertebrates | # 13 Laurance Debating the Tropical Extinction Crisis | # 20 Jansen Seed dispersal and seed predation in Neotropical palms |
| Room 3: Cervantes Saavedra (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | # 3 Jaramillo The impact of plant phylogenies on tropical ecology and evolutionary studies | # 10 Mueller Ecological theory and tropical ecology: bridging the gap for mutual gain | # 14 Cavender Tropical Oaks: Diversity, Ecology and Conservation | # 21 Paz Functional Ecology of Tropical Plant Communities |
| Room 4: Sala Rectores (Second Floor) Building: Centro Cultural Universitario | #4 Nogueira Ecology of insect x plant interactions in the tropic | | # 15 Kress Diversity and Evolution of Pollination and Mating Systems of Tropical Plants | # 22 Armbruster Pollination in Natural and Fragmented Communities |
| Room 5: Aula Mater (First Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | | # 7 Sánchez & Quesada TROPIC-DRY: Human and Biophysical Dimensions of Neotropical Dry Forests: Results from a Collaborative Project | # 16 Hietz Ecology of coffee agro-ecosystems | # 23 Guevara Biosphere reserves: a sound strategy for the conservation of biological diversity and development in the American tropics? |



PROGRAM

| ORAL PRESENTATIONS (MORNING) | | MONDAY, JULY 16 | TUESDAY JULY 17 | WEDNESDAY JULY 18 | THURSDAY JULY 19 |
|---|--|--|---|--|-------------------------|
| Room 6: Sala 2 (Second Floor) Building: Centro Cultural Universitario | Forest fragmentation and conservation genetics of plants | Herbivory | Ecology & conservation of birds. Part I | Succession in tropical ecosystems | |
| Room 7: Miguel Hidalgo (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Restoration of tropical ecosystems. Part I | Biodiversity inventories and conservation. Part I | Forest management and selective logging. Part I | Phylogeny and phylogeography of plants | |
| Room 8: Enrique Shuls (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Biological & social bases for sustainable use of NTP. Part I | Ecology and conservation of mammals. Part I | Ecology, evolution and conservation of arthropods. Part I | The ecological role of ants in tropical ecosystems. Part I | |
| Room 9: Aristóteles (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Population and community ecology of tropical systems. Part I | Social and economic drivers of change of tropical ecosystems. Part I | Human development and sustainability. Part I | Invasive species in the tropics | |
| Room 10: Manuel Altamirano (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Ecology of seed dispersal. Part I | Ethnobiology | Plant physiological ecology. Part I | Ecology and conservation of amphibians and reptiles | |



PROGRAM

| SYMPOSIA (AFTERNOON) | | | | |
|---|--|---|--|---|
| | MONDAY JULY 16 | TUESDAY JULY 17 | WEDNESDAY JULY 18 | THURSDAY JULY 19 |
| Room 1: Teatro José Ruben Romero Building: Teatro José Ruben Romero (Auditorium) | # 1 Aide The influence of human demography and agriculture on natural systems in the Neotropics | # 8 Chazdon Managing Tropical Agricultural Landscapes to Enhance Biodiversity | # 12 Balvanera Approaches to the study of ecosystems services provided by tropical systems | # 24 Boom Linking Tropical Biology with Human Dimensions in the West Indies |
| Room 2: Auditorium de las Rosas (Auditorium) Building: Conservatorio de las Rosas | # 5 Henry & Stoner Landscape ecology of bats: from population to community level | # 17 Thompson The Evolutionary Ecology of Multispecific Interactions in Changing Environments | | |
| Room 3: Cervantes Saavedra (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | # 3 Jaramillo The impact of plant phylogenies on tropical ecology and evolutionary studies | # 14 Cavender Tropical Oaks: Diversity, Ecology and Conservation | | |
| Room 4: Sala Rectores (Second Floor) Building: Centro Cultural Universitario | # 6 Marquis Gradients in plant-herbivore interactions involving tropical systems | # 11 Luizao Conservation of the Biodiversity and of the Environmental Services of the Forest: Basis for the Sustainable Development of the Amazon | # 18 Perez Ecology and management of climbing plants | |
| Room 5: Aula Mater (First Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | # 7 Sánchez & Quesada TROPICAL DRY: Human and Biophysical Dimensions of Neotropical Dry Forests: Results from a Collaborative Research Network | # 7 Sánchez & Quesada TROPICAL DRY: Human and Biophysical Dimensions of Neotropical Dry Forests: Results from a Collaborative project | # 16 Hietz Ecology of coffee agro-ecosystems | # 23 Guevara Biosphere reserves: a sound strategy for the conservation of biological diversity and development in the American tropics? |



PROGRAM

| ORAL PRESENTATIONS (AFTERNOON) | | | |
|---|---|---|---|
| | MONDAY JULY 16 | TUESDAY JULY 17 | WEDNESDAY JULY 18 THURSDAY JULY 19 |
| Room 6: Sala 2 (Second Floor) Building: Centro Cultural Universitario | Effects of Forest Fragmentation on Tropical Systems | Pollination and plant reproduction. Part I | Ecology & conservation of birds. Part II Pollination and plant reproduction. Part II |
| Room 7: Miguel Hidalgo (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Restoration of tropical ecosystems. Part II | Biodiversity inventories and conservation. Part II | Forest management and selective logging. Part II Litterfall and soil ecology |
| Room 8: Enrique Shuls (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Biological & social bases for sustainable use of NTP. Part II | Ecology and conservation of mammals. Part II | Ecology, evolution and conservation of arthropods. Part II The ecological role of ants in tropical ecosystems. Part II |
| Room 9: Aristóteles (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Population and community ecology of tropical systems. Part II | Social and economic drivers of change of tropical ecosystems. Part II | Human development and sustainability. Part II Seed and seedling ecology |
| Room 10: Manuel Alzamirano (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Ecology of seed dispersal. Part II | Ecosystems services | Plant physiological ecology. Part II Evolution and genetic diversity of plants |
| Room 11: Erodoto (First Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo | Global Change | | |



PROGRAM

| POSTERS (AFTERNOON) | | | | |
|----------------------------|--|---|------------------------------------|---|
| | MONDAY JULY 16 | TUESDAY JULY 17 | WEDNESDAY JULY 18 | THURSDAY JULY 19 |
| | Restoration of tropical ecology | Herbivory | Pollination and plant reproduction | Phenology |
| | Forest fragmentation & conservation genetics | Biodiversity inventories & conservation | Plant physiological ecology | Plant communities |
| | Forest structure and dynamics | Ecology and conservation of vertebrates | | Ecosystem management |
| | Tropi-Dry | | | Human development & tropical ecosystems |

Building: Colegio Primitivo de San Nicolás de Hidalgo

Format presentations:
16:00 to 17:45
 Presenters should set up posters at 9:30 AM the day of the presentation.



SYMPOSIA

#1 Part I: The influence of human demography and agriculture on natural systems in the Neotropics

MONDAY JULY 16

Room 1: Teatro José Ruben Romero

Bulding: Teatro José Ruben Romero (Auditorium)

Organized by:

- T. Mitchell Aide, Department of Biology, University of Puerto Rico
- H. Ricardo Grau, Lab. de Investigaciones Ecológicas de las Yungas. Universidad Nacional de Tucumán

09:50 **Overview** by Symposium Organizer

10:00 Evaluation of three cultural landscapes of Mexico
Ordonez Diaz Maria de Jesus

10:20 A geographical analysis of causal factors of deforestation and CO2 emissions in the Lacandon rainforest, Mexico
Castillo Santiago Miguel and de Jong Ben

10:40 Remittances, and Forest Recovery: Rethinking Conservation in the 21st century
Susanna Hecht

11:00 Coffee break

11:20 Population and Land Cover Change in Latin America and Guatemala
Carr David, Grace Kathryn and Davis Jason

11:40 The deforestation and reforestation of the Republic of Panama
Wright S. Joseph, Samaniego Mirna and Muller-Landau Helene C.

12:00 Economic trends in colombian's agriculture and ecosystem transformations: geographical impact
Sarmiento Armando

12:30 Lunch



2 Primates at Risk: Conservation Concerns and Indigenous Anthropogenic Landscapes

MONDAY JULY 16

Room 2: Conservatorio de las Rosas (Auditorium)

Building: Conservatorio de las Rosas

Organized by:

- Kevina Vulinec, Department of Agriculture and Natural Resources, Delaware State University
- Kathryn E. Stoner, Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México

09:50 **Overview** by Symposium Organizer

10:00 Fear and loathing in the rainforest: hunting and primate behavior in the Americas.
Kevina Vulinec and **David Mellow**

10:20 Patterns of distribution and persistence in a degraded landscape: a primate community in the Brazilian Amazon
Sarah A. Boyle, Kellen A. Gilbert, Wilson R. Spironello, Alaercio Marajó dos Réis, Osmaido Ferreira da Silva, Waldete Castro Lourenço and **Livia Rodrigues da Silva**

10:40 Presence of black howler monkeys (*Alouatta pigra*) and regeneration in tropical rain forest fragments in the Lacandon region, Chiapas, Mexico
A. M. González di Pierro, J. Benítez-Malvido, and **K. E. Stoner**

11:00 Coffee break

11:20 The Influence of Large Tree Density on Howler Monkey (*Alouatta palliata mexicana*) Presence in Very Small Rainforest Fragments
Arroyo-Rodriguez Victor, Mandujano Salvador, Benitez-Malvido Julieta,

11:40 Spider Monkeys (*Ateles geoffroyi*) in small reserves: Can mutualistic interactions between large monkeys and large seeded plants be maintained in the Osa Peninsula, southwestern Costa Rica?
Pablo Riba Hernández and **Kathryn E. Stoner**

12:00 Human dimension of primate conservation issues in tropical countries and conservation value of some current, traditional and alternative land management practices from Mesoamerica
Alejandro Estrada, Genoveva Trejo and **Cristina Jasso.**

12:20 Conclusion Symposium

12:30 Lunch



3 Part I: The impact of plant phylogenies on tropical ecology and evolutionary studies

MONDAY JULY 16

Room 3: Cervantes Saavedra (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Organized by:

- M. Alejandra Jaramillo, University of Missouri-Columbia, Div. Biological Sciences
- Lúcia G. Lohmann, Universidade de São Paulo, Instituto de Biociências, Departamento de Botânica

09:50 Introduction –Tropical ecologists enjoying phylogenetic trees

Campbell Webb and **Arnold Arboretum.**

cwebb@oeb.harvard.edu

10:00 Phylogenetic structure of communities and traits in tropical woody plants

Chave Jerome, Suchet Claire and **ter Steege Hans**

10:20 Using phylogenies to integrate ecological and evolutionary studies of trait tradeoffs in Amazonian plants

Fine Paul, Mesones Italo and **Baraloto Christopher**

10:40 Ecological diversification of Neotropical lianas (Bignoniaceae, Bignoniaceae): An integrative approach

Lohmann Lucia

11:00 Coffee break

11:20 Using plant phylogenies to understand patterns of dispersal assembly and niche conservation in the rain forests and seasonally dry forests of the Neotropics

Pennington R. Toby, Lavin Matt and **Torke Benjamin**

11:40 Modeling niche conservation with community phylogenetic distance as a response variable: a model selection approach to the identification of metacommunities

Ary Oliveira-Filho, Toby Pennington, Jay Rotella, and **Matt Lavin**

12:00 Neither trees nor herbs: the evolution of giant rosettes and other adaptations in the Agavaceae family

Eguiarte Luis E., Flores Abreu Ileana Nuri, Souza Valeria, Good-Avila Sara V. and **Garcia-Mendoza Abisai**

12:20 Lunch



4 Ecology of insect x plant interactions in the tropics

MONDAY JULY 16

Room 4: Sala Rectores (Second Floor)

Building: Centro Cultural Universitario

Organized by:

- Carlos Roberto Fonseca, UNISINOS, Brazil
- Flávia Nogueira de Sá, Universidade Federal do Rio Grande do Sul, Depto. Ecología – Inst. Biociências

09:50 Overview by Symposium Organizer

10:00 The impact of specialized herbivores on plant community structure

Becerra Judith Becerra

10:20 Latitudinal changes on herbivory: comparison between the distribution extremes of a Chilean endemic tree

del-Val Ek and Armesto Juan

10:40 The global decline of insect herbivores in biodiversity hotspots

Fonseca Carlos Roberto

11:00 Coffee break

11:20 Are there-top-down effects in Neotropical savannas? Quantifying the impacts of a keystone herbivore (*Atta* spp.)

Bruna Emilio M., Vasconcelos Heraldo L., da Costa Alan Nilo, Mundim Fabiane, M., Vaz Ferreira Alana and Vieira Neto Ernane H. M.

11:40 Conclusion Symposium

12:00 Lunch



#1 Part II: The influence of human demography and agriculture on natural systems in the Neotropics

MONDAY JULY 16

Room 1: Teatro José Ruben Romero

Building: Teatro José Ruben Romero (Auditorium)

14:00 Land-use and land-cover trends in the metropolitan region of Florianopolis, SantaCatarina state, southern Brazil

Baptista Sandra

14:20 Movement of population and investment in Brazilian Amazonia as factors in deforestation

Philip M. Fearnside

14:40 Land-Use Change in Bolivia: Who, Where, When, and How Much

Tim Killen

15:00 Coffee break

15:20 Thirty years of human demography and land-use change in the Atlantic Forest of Misiones, Argentina: a test of forest transition models

Izquierdo Andrea, De Angelo Carlos and Aide T. Michell

15:40 Agriculture adjustment, population urbanization and nature conservation in NW Argentina

Grau Ricardo, Gasparri Ignacio, Grau Alfredo, Morales Mariano, Carilla Julieta, Araoz Ezequiel, Izquierdo Andrea

16:00 The influence of human demography and agriculture on natural systems in the Neotropics

Jane Earley

16:20 Conclusion Symposium



#5 Landscape ecology of bats: from population to community

MONDAY JULY 16

Room 2: Conservatorio de las Rosas (Auditorium)

Building: Conservatorio de las Rosas

Organized by:

- Mickaël Henry, Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México
- Kathryn E. Stoner Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México

13:50 **Overview** by Symposium Organizer

14:00 Modeling the distribution of bats in heterogeneous landscapes: toward a definition of functional connectivity

Henry Mickaël, Pons Jean-Marc and Cosson Jean-François

14:20 Community-level responses of Neotropical bats to habitat fragmentation: land-bridge islands in Gatun Lake, Panama, as a model system

Meyer Christoph F. J. and Kalko Elisabeth K. V.

14:40 Relationships between edge effect and bat assemblages in Andean forest fragments

Otalora-Ardila Aida and Lopez Arevalo Hugo F

15:00 Coffee break

15:20 Foraging behavior of nectarivorous bats in disturbed and undisturbed habitats in tropical dry forest

Selene Maldonado López, Kathryn E. Stoner, Mauricio Quesada, Yvonne Herrerias Diego and David Uribe

15:40 The role of frugivorous bats in tropical succession

Muscarella Robert and Fleming Theodore

16:00 Conclusion Symposium



3 Part II: The impact of plant phylogenies on tropical ecology and evolutionary studies

MONDAY, JULY 16

Room 3: Cervantes Saavedra (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

14:00 Extreme long distance dispersal of a lowland rainforest tree (Ceiba pentandra: Malvaceae) across the Neotropics and Africa
Christopher W. Dick, Eldredge Bermingham, Maristerra R. Lemes and Rogelio Gribel

14:20 Phyloepidemiology: ecological consequences of the phylogenetic signal in plant pathogen host ranges
Gilbert Gregory and Webb Campbell

14:40 Phylogeny and the ecological distribution of C4 grasses
Edwards Erika J. and Still Chris J.

15:00 Coffee break

15:20 Diversification in tropical wet forests: Evolution of Piper in the Neotropics
Jaramillo Sierra M. Alejandra

15:40 The origin and radiation of the Andean Espeletiinae: do chloroplast and nuclear gene phylogenies disagree?
Rauscher Jason

16:00 The evolutionary history of the fig-fig wasp mutualism
Carlos A. Machado

16:20 Conclusion Symposium



6 Gradients in plant-herbivore interactions involving tropical systems

MONDAY JULY 16

Room 4: Sala Rectores (Second Floor)

Building: Centro Cultural Universitario

Organized by:

- Robert Marquis, Dept. Biology, University of Missouri-St. Louis
- Karina Boege, Universidad Nacional Autónoma de México, Instituto de Ecología

13:50 Overview by Symposium Organizer

14:00 Herbivores and herbivory across two soil types in a Borneo rain forest
Eichhorn Markus P.

14:20 Leaf herbivore richness and diversity on plant species in burned and unburned plots in the Brazilian Cerrado
Diniz Ivone, Hay John, Morais Helena, Gonçalves Cintia and Higgins Bárbara

14:40 Ant-plant-herbivore interactions and the divergence in the defensive ecology of Inga between two Neotropical sites
Brenes-Arguedas Tania, Coley Phyllis D. and Kursar Thomas A.

15:00 Coffee break

15:20 Is seasonality a driver of herbivory and defense?: A comparison between tropical dry and rain forests
Boege Karina and Dirzo Rodolfo

15:40 Role of latitude and phylogeny for plant defense traits in broad-leaved tree species
Marquis Robert J. Ricklefs Robert E. and Abdala-Roberts Luis

16:00 Latitudinal and climatic gradients in tritrophic interactions
Dyer Lee

16:20 Conclusion Symposium



7 TROPY-DRY Part I: Human and Biophysical Dimensions of Neotropical Dry Forests: Results from a Collaborative Research Network

MONDAY, JULY 16

Room 5: Aula Mater (First Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Organized by:

- G. Arturo Sanchez-Azofeifa, Tropi-Dry Principal Investigator, Earth and Atmospheric Sciences Department, University of Alberta, Canada
- Mauricio Quesada, Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México
- Geraldo Wilson Fernandez, Biology Department, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais
- Jon Paul Rodriguez, Instituto Venezolano de Investigaciones Científicas (IVIC), Caracas, Venezuela

13:50 Overview by Symposium Organizer

14:00 Extent, threats and conservation of tropical dry forests in the Americas
Carlos Portillo-Quintero and G. Arturo Sanchez-Azofeifa

14:20 Changes in tree and liana communities along a successional gradient in a tropical dry forest in southeastern Brazil
Mário M. Espírito-Santo, Bruno G. Madeira, Santos D'Ângelo, Yule R. F. Nunes G. Arturo Sanchez Azofeifa, Geraldo W. Fernandes and Mauricio Quesada

14:40 Functional Traits of Woody Species Growing Under Different Successional Stages of a Tropical Dry Forest
Mariana Y. Alvarez-Anorve, Mauricio Quesada and G. Arturo Sanchez-Azofeifa

15:00 Coffee break

15:20 Multi-scale assessment of tropical dry forest extinction risk and conservation priorities in northern Venezuela
Rodríguez, Jon Paul, Jafet M. Nassar, Kathryn M. Rodríguez-Clark, Carlos A. Portillo Q., Irene Zager, Fabián Carrasquel, and Sergio Zambrano

15:40 Mapping liana coverage from hyperspectral data in a tropical dry forest: leaf and crown levels
Margaret Kalacska and G. Arturo Sanchez-Azofeifa

16:00 The effect of forest age on response to climatic variation in tropical dry forests: regional to continental scales
Deborah Lawrence



8 Part I Managing Tropical Agricultural Landscapes to Enhance Biodiversity

TUESDAY, JULY 17

Room 1: Teatro José Ruben Romero

Building: Teatro José Ruben Romero (Auditorium)

Organized by:

- Robin L. Chazdon, Dept. of Ecology and Evolutionary Biology, University of Connecticut

09:50 Overview by Symposium Organizer

10:00 Maya agriculture and the forest matrix: intentional succession in the Lacandon rain forest
Ronald Nigh

10:20 Traditional agricultural practices enhance agro-biodiversity and pest management
Helda Morales

10:40 Biodiversity, ecological, and economic services in coffee agroecosystems
Stacy Philpott and Ivette Perfecto

11:00 Coffee break

11:20 Quantification of avian use of a shaded coffee plantation as a biological corridor
Oliver Komar

11:40 Farmers, tree cover and biodiversity conservation in agricultural landscapes of Central America

Celia A. Harvey, Joel C. Saenz, Cristobal Villanueva, Rene Gomez, Marlon Lopez, Muhammad Ibrahim and Fergus L. Sinclair

12:00 Rainforest trees outside forest fragments as seed sources and regeneration nuclei for forest recovery

Javier Laborde, Sergio Guevara and Graciela Sanchez-Rios

12:30 Lunch



9 Conservation Genetics of Tropical Vertebrates

TUESDAY, JULY 17

Room 2: Conservatorio de las Rosas (Auditorium)

Building: Conservatorio de las Rosas

Organized by:

- Sofia Solórzano, FES Iztacala, Universidad Nacional Autónoma de México, Mexico.
- Omar Chassin, Facultad de Biología-CMEB, UMSNH, Mexico
- Philip Hedrick, Arizona State University

09:50 Overview by Symposium Organizer

10:00 Genomics and the Conservation of Species.
Stephen J. O'Brien.

10:20 Genetic diversity and molecular relationships among members of the genus *chirostoma* (Atherinopsidae: Menidiinae)
Irene de los Angeles Barriga-Sosa, Claudia Gárnica-Rivera, Mónica Y. Pérez-Ramírez, José Luis Arredondo-Figueroa, Rodrigo Moncayo-Estrada and Francisco J. García de León

10:40 Systematics and conservation genetics of the *Chelonia* genus: two approaches to one issue
Omar Chassin-Noria and Ken Oyama

11:00 Coffee break

11:20 Establishing a general conservation strategy for threatened taxa based on ecologic and genetic data. The case of the Mesoamerican Resplendent Quetzal (*Pharomachrus mocinno*, Aves)
Sofia Solórzano and Ken Oyama

11:40 Conservation Genetics of Mexican Wolves
Phil Hedrick and Fredrickson Rich

12:00 Perspectives of Conservation Genetics in Tropical regions.
Stephen J. O'Brien

12:20 Discussion and Final Remarks: The creation and conservation genetics Network
Sofía Solorzano, Omar Chassin and Phillip Hedrick.

12:30 Lunch



10 Ecological theory and tropical ecology: bridging the gap for mutual gain

TUESDAY, JULY 17

Room 3: Cervantes Saavedra (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Organized by:

- Helene C. Muller-Landau, University of Minnesota
- Jérôme Chave, CNRS, Toulouse

09:50 Overview by Symposium Organizer

10:00 To what degree do stabilizing forces at different life stages contribute to tree species coexistence in tropical forests?

Comita Liza, Muller-Landau Helene C., Condit Richard, Wright S. Joseph and Hubbell Stephen

10:20 Diversity-enhancing Janzen-Connell effects: What do our studies really tell us about their role in plant communities?

Muller-Landau Helene C. and Adler Frederick R.

10:40 The evolution of tropical forest communities: what can phylogenetic relatedness tell us about community assembly in different habitats?

Kemmel Steven W.

11:00 Coffee break

11:20 Testing the phylogenetic structure of local communities: which null model is adequate?

Hardy Olivier J.

11:40 Phylogeny, niches and relative abundance

Kelly C. K. and Bowler M. G.

12:00 Spatial diversity in tropical plant communities: theory and data

Chave Jérôme

12:20 Conclusion Symposium

12:30 Lunch



7 TROPI-DRY Part II: Human and Biophysical Dimensions of Neotropical Dry Forests: Results from a Collaborative Research Network

TUESDAY JULY 17

Room 5: Aula Mater (First Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

- 10:00 Vegetation and flora of Central Brazil dry forests and the strategy for its conservation
Anderson C. Sevilha, Taciana B. Cavalcanti, and Aldicir Scariot
- 10:20 Linkages between ecosystem structure, composition and leaf area index along a tropical dry forest chronosequence in Mexico
Yingduan Huang, Arturo Sanchez-Azofeifa, Benoit Rivard and Mauricio Quesada
- 10:40 Mass loss and nitrogen dynamics of decomposing leaf litter of 26 tropical dry forest species: a trait-based approach
Jennifer S. Powers
- 11:00 Coffee break
- 11:20 Ecological Basis for the Conservation and Management of Endangered Dry Forests Trees in Central Brazil
Aldicir Scariot, Daniel L. M. Vieira, Anderson C. Sevilha, Alexandre B. Sampaio, Antonieta N. Salomão and Ernestino Guarino
- 11:40 Human dimensions of land use and land cover change around the Chamela-Cuixmala Biosphere Reserve
Alicia Castillo
- 12:00 Deforestation and Restoration of Tropical Dry Forest: the case of the Chorotega Region in Costa Rica
G. Arturo Sánchez-Azofeifa, Julio C. Calvo-Alvarado, Alexander Pfaff and Juan Andres Robalino
- 12:30 Lunch



8 Part II Managing Tropical Agricultural Landscapes to Enhance Biodiversity

TUESDAY, JULY 17

Room 1: Teatro José Ruben Romero

Building: Teatro José Ruben Romero (Auditorium)

- 14:00 Sustaining the genetic diversity of trees in managed landscapes
David Boshier, Tonya Lander and Paul Rymer
- 14:20 Predicting the forest regeneration capacity of post-agricultural tropical landscapes
Bruce G. Ferguson, Douglas H. Boucher, Miguel Martinez-Ramos, Karen D. Holl, Daniel M. Griffith, Alexandre Bonesso Sampaio and Deborah Lawrence
- 14:40 Spatial patterns of tropical forest recovery in an agricultural landscape
Karen D. Holl, Rebecca J. Cole, Rakan A. Zahawi, Catherine A. Lindell and Rebecca D. Fink
- 15:00 Coffee break
- 15:20 Restoring tropical forest biodiversity using late-successional tree species
Cristina Martinez-Garza and Henry F. Howe
- 15:40 The fate of dry Afromontane forests in northern Ethiopia
Frans Bongers, Alemayehu Wassie, Raf Aerts, Tefera Mengistu, and Frank Sterck
- 16:00 Structural and functional dynamics of second-growth forests under contrasting previous land use regimes: a long-term permanent sample plot study in Northeastern Costa Rica
Robin L. Chazdon and Bryan Finegan
- 16:20 Conclusion Symposium



11 Conservation of the Biodiversity and of the Environmental Services of the Forest: Basis for the Sustainable Development of The Amazon

TUESDAY, JULY 17

Room 4: Sala Rectores (Second Floor)

Building: Centro Cultural Universitario

Organized by:

- Regina C. C. Luizão, Scientific Coordinator of the Biological Dynamic of Forest Fragments Project - BDFFP. National Institute for Research in the Amazon

13:50 Overview by Symposium Organizer

14:00 Learning from a long-term study of forest fragmentation and conversion in central Brazil: BDFFP insights and highlights
Luizão Regina C. C.

14:20 Loss of Environmental Services from Deforestation in Brazilian Amazonia: Impacts of the Manaus-Porto Velho (BR-319) Highway
Fearnside Philip M, Paulo Mauricio Lima Graça, Alencastro and Keizer Edwin Willem Hermanus

14:40 Biogeochemical Functioning of Intact Forest and Altered Ecosystems in Central Amazon: Loss and Rehabilitation of Environmental Services at Local Scale.
Luizão Flávio J. and Regina C.C. Luizão

15:00 Coffee break

15:20 Disrupted Ecosystem Functioning in Amazonian Forest Fragments
Laurance William

15:40 Studies on conservation and use of forestry resources: natural history of tropical trees, seed technology and seedling propagation
Camargo José Luís

16:00 Ecological Succession in Degraded Areas of the Central Amazon: Processes, Causes and Consequences
Mesquita Rita and Tony Vizcarra Bentos

16:20 Conclusion Symposium



7 TROPI-DRY Part III: Human and Biophysical Dimensions of Neotropical Dry Forests: Results from a Collaborative Research Network

TUESDAY, JULY 17

Room 5: Aula Mater (First Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

- 14:00 Natural regeneration and restoration of dry forests of Central Brazil
Daniel L. M. Vieira, Alexandre B. Sampaio, Aldicir Scariot and Anderson C. Sevilha
- 14:20 The changing context of forest protection: Investigating the influence of socioeconomic change on forest regrowth in the Guanacaste Conservation Area, Costa Rica
Blythe McLennan, Theresa Garvin and Arturo Sanchez-Azofeifa
- 14:40 Changes in composition, structure, and diversity of phyllostomid bat communities during the natural regeneration of tropical dry forest
Luis Daniel Ávila Cabadilla and Kathryn E. Stoner
- 15:00 Coffee break
- 15:20 Diversity of fruit-feeding butterflies on three successional stages of a seasonally dry tropical forest in northern Minas Gerais, Brazil
Bruno Gini Madeira, Elton Bordoni, Victor Hugo Fonseca Oliveira and Carlos Frankl Sperber
- 15:40 Reproductive phenology and pollination ecology of Ipomoea in different successional stages in a dry tropical forest
Víctor M. Rosas-Guerrero, Mauricio Quesada, Yunuen García-Rojas and Pablo Cuevas-Reyes
- 16:00 Sustainability of tropical dry forests: informatics needs in an interdisciplinary and multidisciplinary world
John Gamon and G. Arturo Sanchez-Azofeifa
- 16:20 Conclusion Symposium



12 Part I: Approaches To The Study Of Ecosystem Services Provided By Tropical Systems

WEDNESDAY, JULY 18

Room 1: Teatro José Ruben Romero

Bulding: Teatro José Ruben Romero (Auditorium)

Organized by:

- Patricia Balvanera, Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México
- Helena Cotler, Instituto Nacional de Ecología, Mexico

09:50 Overview by Symposium Organizer

10:00 Integrating science, economics and people: forest ecosystem services in the Valdivian rainforest ecoregion

Christine N. Meynard, Antonio Lara, Laura Nahuelhua¹, Cristian Echevería, Daisy Núñez, Carlos Oyarzún, Jorge León, Eduardo Neira and Doris Soto

10:20 Assessing the linkages between plant functional diversity and ecosystem services from the stakeholders' points of view

Fabien Quétier, Sandra Díaz, Daniel Cáceres, Marcelo Cabido and Natalia Pérez

10:40 The Inadequacy of Fisheries Science, especially when applied to the tropics

Castello, L., J.P. Castello, and C.A.S. Hall

11:00 Coffee break

11:20 Payment for environmental services: a new way of doing biodiversity conservation

Rocio del Pilar Moreno and Sven Wunder

11:40 Consensus building by means of mediated modeling with an approach on ecosystem services

Octavio Pérez-Maqueo, Miguel Equihua, Gabriela Vázquez, Maria Luisa Martínez, Adolfo Campos-Vazquez, Gonzalo Castillo, Edmundo Díaz Pardo, José García-Franco, Daniel Gleissert, Klaus Mehltreter, Lyssette Muñoz- Villers and Enrique Meza

12:00 Interdisciplinary development of conceptual frameworks and methodological tools for the study of ecosystem services: the case of the Cuixmala River basin

Manuel Maass, Patricia Balvanera, Alicia Castillo, Marisa Mazari, Helena Cotler, Elena Lazos, Patricia Avila, Luis Miguel Galindo and José Sarukhán

12:30 Lunch



13 Debating the Tropical Extinction Crisis

WEDNESDAY JULY 18

Room 2: Conservatorio de las Rosas (Auditorium)

Building: Conservatorio de las Rosas

Organized by:

- William F. Laurance, ATBC Past-President, Smithsonian Tropical Research Institute, Balboa, Panama
- S. Joseph Wright, Smithsonian Tropical Research Institute, Balboa, Panama

09:50 **Overview** by Symposium Organizer

10:00 Land use change, climate change and the extinction of tropical forest species
Wright S. Joseph and **Muller-Landau Helene C.**

10:20 And Now a Word from Chicken Little: Reflections on the Tropical Extinction Crisis
Laurance William

10:40 Is there a global extinction crisis for biodiversity?
Nigel Stork

11:00 Coffee break

11:20 Size matters: the functional extinction of large vertebrates in tropical forests
Corlett Richard

11:40 The potential of rural-urban migration and agriculture modernization to promote neotropical biodiversity conservation
H. Ricardo Grau, T. Mitchell Aide & N. Ignacio Gasparri

12:00 Will Urbanization Cause Deforested Areas to be Abandoned in Brazilian Amazonia? An Examination of the Wright/Muller-Landau Assumptions for the Future of the Worlds Largest Tropical Forest
Fearnside Philip M.

12:20 Conclusion Symposium

12:30 Lunch



#14 Part I Tropical Oaks: Diversity, Ecology and Conservation

WEDNESDAY JULY 18

Room 3: Cervantes Saavedra (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Organized by:

- Jeannine Cavender-Bares, Department of Ecology, Evolution and Behavior, University of Minnesota
- Antonio González-Rodríguez, Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México

09:50 Overview by Symposium Organizer

10:00 Phylogenetic analysis of series Lanceolatae of genus Quercus
Valencia Avalos Susana

10:20 Introgression among oaks: prevalence and underlying mechanisms
Petit Remy J.

10:40 Introgressive hybridization and range advance in California red oaks
Richard S. Dodd and Zara Afzal-Rafii

11:00 Coffee break

11:20 Patterns of genetic variation sharing among Mexican red oak species
Gonzalez-Rodriguez Antonio, Ramos-Ortiz Selene, Caron Henri, Kremer Antoine and Oyama Ken

11:40 Understanding genetic patterns in disjunct species of Mexican Quercus: a case study of Section Lobatae Subsection Racemiflorae
Ross A. McCauley, Aurea C. Cortés-Palomec, and Ken Oyama

12:00 Ecophysiological and genetic differentiation of live oaks (Quercus section Virentes) across a latitudinal gradient from the tropics to the temperate zone
Cavender-Bares Jeannine, Pahlich Annette, Deacon Nicholas, Savage Jessica and Gonzalez-Rodriguez Antonio

12:30 Lunch



15 Diversity and Evolution of Pollination and Mating Systems of Tropical Plants

WEDNESDAY JULY 18

Room 4: Sala Rectores (Second Floor)

Building: Centro Cultural Universitario

Organized by:

- W. John Kress, Department of Botany, Smithsonian Institution
- Qing-Jun Li, Xishuangbanna Tropical Botanical, Chinese Academy of Sciences

09:50 Overview by Symposium Organizer

10:00 Pollinator generalization and specialization across a geographic mosaic: hummingbirds and heliconias of the eastern Caribbean

Temeles Ethan and Kress John

10:20 Maintenance of flexistylis in *Alpinia* spp. (Zingiberaceae): The role of morphology, ecology and genetics

Li Qing-Jun and Liu Min

10:40 Adaptive trade-off in corolla shape mediates specialization for flowers pollinated by bats and hummingbirds

Muchhala Nathan

11:00 Coffee break

11:20 Island invaders: The role of introduced mutualists in pollination in Mauritius

Kaiser Christopher N., Memmott Jane and Muller Christine B.

11:40 Potential ecological and evolutionary responses of a plant-pollinator system due to human induced climate change

Lopes Luciano E. and Buzato Silvana

12:00 Between a rock and a hard place: figs, pollinators, and parasites in the Sonoran Desert

Nason John, Day Kevin, Gates Dan and Stireman John

12:20 Floral pubs: role of nectar in driving sex-specific *Heliconia*-hummingbird interactions in the Caribbean islands.

W. John Kress and Vinita Gowda

12:40 Lunch



16 Part I Ecology of coffee agro-ecosystems

WEDNESDAY JULY 18

Room 5: Aula Mater (First Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Organized by:

Peter Hietz, Institute of Botany, University of Natural Resources and Applied Life Sciences,
Vienna, Austria

09:50 Overview by Symposium Organizer

10:00 A multi-taxonomic and multi-scale evaluation of the role of shade coffee farms in
conserving regional biodiversity in central Veracruz, Mexico
Manson Robert H.

10:20 Quantifying the forest in the trees: conservation agroecology lessons from birds and
beetles in coffee
Gordon Caleb

10:40 Coffee Landscape and Production Strategies in Central Veracruz, México
Trujillo Ortega Laura

11:00 Coffee break

11:20 Examining epiphyte and bird connections in coffee plantations: experimental studies
Andrea Cruz Angón, Russell Greenberg and T. Scott Sillet

11:40 Pest control in a spatially explicit coffee agroecosystem
Ivette Perfecto and Philppot Stacy M.

12:00 Synergistic Interactions between Vertebrate Insectivores: Bats and Birds Control
Arthropods in a Coffee Agroforest
Williams-Guillen Kimberly, Perfecto Ivette and Vandermeer John

12:30 Lunch



12 Part II: Approaches To The Study Of Ecosystem Services Provided By Tropical Systems

WEDNESDAY, JULY 18

Room 1: Teatro José Ruben Romero

Bulding: Teatro José Ruben Romero (Auditorium)

- 14:00 Magdalena river watershed's ecosystem services, at Mexico City
Lucía Almeida-Leñero, Mariana Nava Ramos, Julieta Jujnovsky and Maria de Jesús Ordoñez
- 14:20 Flagship spaces to ensure long term environmental services provision: the study case o copalita basin in Mexico
Alejandro Velázquez, Alejandra Larrazábal, Ángel Priego, Gerardo Bocco and Helena Cotler
- 14:40 Economic Valuation of Ecosystem Services for decision making: scope and challenges
Enrique Sanjurjo, José Carlos Fernández and Iván Islas
- 15:00 Coffee break
- 15:20 Ecological economics: for ecosystem services studies
V. Sophie Avila-Foucalt
- 15:40 Ecological services trading in rural communities: 10 years experience in Chiapas, México
Ben de Jong and Omar Masera
- 16:00 Protecting an endangered dry-tropical forest palm by promoting the ecosystem services it provides
Laura López-Hoffman, Irene Aguilera-Taylor and Alejandra Corzo
- 16:20 Conclusion Symposium



17 The Evolutionary Ecology of Multispecific Interactions in Changing Environments

WEDNESDAY JULY 18

Room 2: Conservatorio de las Rosas (Auditorium)

Building: Conservatorio de las Rosas

Organized by:

- John N. Thompson, University of California-Santa Cruz
- Rodolfo Dirzo, Department of Biological Sciences, Stanford University

13:50 Overview by Symposium Organizer

14:00 Anthropogenically driven shifts in the nature and strength of antagonistic plant-animal interactions

Dirzo Rodolfo, Mendoza Eduardo, Ruiz Betsabé, Aguirre Armando, López Juan Carlos

14:20 Coevolution in Multispecific Ant-Plant Interactions

Rico-Gray Victor and Guimaraes Jr. Paulo R.

14:40 Host plants and herbivores: divergence and tradeoffs in defenses in Inga

Coley Phyllis, Kursar Thomas, Lokvam John and Pennington Toby

15:00 Coffee break

15:20 Tropical Forests are Both Evolutionary 'Cradles' and 'Museums' of Leaf Beetle Diversity

McKenna Duane and Farrell Brian

15:40 Context dependent pollinator limitation in variable environments

Horvitz Carol, Matlaga David and Ehrlen Johan

16:00 Specialization within coevolving networks of species

Thompson John N

16:20 Conclusion Symposium



#14 Part II Tropical Oaks: Diversity, Ecology and Conservation

WEDNESDAY JULY 18

Room 3: Cervantes Saavedra (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

14:00 South American oaks: where are we?

Fernandez-M. Juan F

14:20 Factors influencing arthropod community structure on Quercus, and consequences for defense evolution

Marquis Robert J

14:40 Dispersal of oaks by scatter-hoarding vertebrates: Are tropical oaks dispersal limited?

Steele Michael A.

15:00 Coffee break

15:20 Genetic consequences of contemporary seed dispersal in California valley oak, *Quercus lobata*

Victoria Sork, Delphine Grivet and Peter Smouse

15:40 Understanding limits to pasture recolonization in a fragmented tropical dry forest: a case study of the tropical live oak *Quercus oleoides* with implications for restoration

Klemens Jeffrey A., Deacon Nicholas J. and Cavender-Bares Jeannine

16:00 Ecology and Restoration of Quercus-Dominated Tropical Montane Forests of Central Chiapas, Southern Mexico

Gonzalez-Espinosa Mario, Ramirez-Marcial Neptali, Galindo-Jaimes Luis, Camacho-Cruz Angelica

16:20 Conclusion Symposium



18 Ecology and management of climbing plants

WEDNESDAY, JULY 18

Room 4: Sala Rectores (Second Floor)

Building: Centro Cultural Universitario

Organized by:

- Diego R. Pérez, Centro de Investigaciones en Ecosistemas, UNAM
- Stefan Schnitzer, University of Wisconsin - Milwaukee

13:50 Overview by Symposium Organizer

14:00 Liana and tree responses to hurricane damage in Cozumel, Mexico
Pérez-Salicrup D. R. and Patiño-Conde P.

14:20 Do lianas alter the relative success of tree species during regeneration?
T. Toledo-Aceves and M. Swaine

14:40 Liana diversity and distribution in tropical forests of southern Eastern Ghats, India: A landscape approach
C. Muthumperumal and N. Parthasarathy

15:00 Coffee break

15:20 Are lianas better than trees at colonizing treefall gaps as seeds or seedlings?
Vargas-Timchenko Marta, Muller-Landau Helene and Wright S. Joseph

15:40 Liana dynamics in a subtropical montane forest of north-western Argentina **Agustina Malizia**

16:00 The role of lianas in treefall gaps: results from an eight-year liana removal experiment
Schnitzer Stefan

16:20 Conclusion Symposium



16 Part II Ecology of coffee agro-ecosystems

WEDNESDAY JULY 18

Room 5: Aula Mater (First Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

13:50 Overview by Symposium Organizer

14:00 Agroforestry and environmental services

Lorena Soto-Pinto, Manuel Anzueto-Martínez and Marcela Delgadillo

14:20 Epiphyte diversity and colonization in coffee plantations

Hietz Peter, Scheffknecht Susanne, Winkler Manuela, Karl Hulber and Garcia-Franco Jose

14:40 Persistence of a Predator Population: Indirect Benefits of Ant-Attendance to a Green Scale Predator in a Coffee Plantation

Liere Heidi

15:00 Coffee break

15:20 Bee diversity within Coffee Agro-forestry Systems: Land Management mediates Community Structure

Jha Shalene

15:40 Seedling establishment of epiphytes in coffee plantations and forests

Scheffknecht Susanne, Winkler Manuela, Hietz Peter, Mata Rosas Martin and Garcia-Franco Jose Guadalupe

16:00 Discussion and conclusion of symposium



#19 Natural Services in local context: Opportunities and barriers to uptake

THURSDAY JULY 19

Room 1: Teatro José Ruben Romero

Building: Teatro José Ruben Romero (Auditorium)

Organized by:

- Julia Born, Ecosystem Management. Institute of Terrestrial Ecosystems. Department of Environmental Sciences, Zurich, Switzerland
- Virginie Boreux, Ecosystem Management. Institute of Terrestrial Ecosystems. Department of Environmental Sciences, Zurich, Switzerland
- Smitha Krishnan, Ecosystem Management. Institute of Terrestrial Ecosystems. Department of Environmental Sciences, Zurich, Switzerland

09:50 Overview by Symposium Organizer

10:00 Strategies and practical tools for integrating local stakeholders into conservation and resource-use research

Kainer Karen A., DiGiano Maria, Duchelle Amy, Bruna Emilio, Dain Jonathan and Wadt Lucia H.O.

10:20 Conserving biodiversity and services from tropical ecosystems: synergy or conflict?
Balvanera Patricia

10:40 Conflicts over natural resources in the Western Amazon: Implications for community forest management of non-timber forest products

Duchelle Amy, Kainer Karen and Cronkleton Peter

11:00 Coffee break

11:20 Integrating the eco-service approach and models on social decision making in humans

Rutte Claudia

11:40 Fostering partnerships between regional government and science

Lowman Meg

12:00 Transfer of ecological knowledge between local communities, administrations and experts: barriers and uptakes at local level?

Cheppudira G. Kushalappa and Garcia Claude A.

12:20 Conclusion Symposium

12:30 Lunch



20 Part I Seed dispersal and seed predation in Neotropical palms

THURSDAY JULY 19

Room 2: Conservatorio de las Rosas (Auditorium)

Building: Conservatorio de las Rosas

Organized by:

- Patrick A. Jansen, Community and Conservation Ecology University of Groningen, the Netherlands
- Kirsten M. Silvius, Gordon and Betty Moore Foundation, San Francisco

09:50 Overview by Symposium Organizer

10:00 Bruchids as predators on palm seeds (Coleoptera: Bruchidae)
Romero Napoles Jesús

10:20 Phenology and seed predation in three species of palms
Notman Evan and Villegas Ana

10:40 Fruit handling by frugivorous vertebrates enables niche partitioning by granivorous beetles: small scale pattern detected by a landscape scale experiment
Silvius Kirsten Mariana

11:00 Coffee break

11:20 Seed density, dispersal and predation in an understory palm
Milleron Tarek

11:40 Differential handling of palm seeds by Central American agoutis (*Dasyprocta punctata*; Rodentia) and collared peccaries (*Tayassu tajacu*; Artiodactyla) has contrasting effects on seed fates
Kuprewicz Erin K

12:00 Production and fate of *Astrocaryum mexicanum* seeds before and after hurricane Iris in southern Belize
Rejmanek Marcel and Klinger Rob

12:30 Lunch



21 Part I Functional Ecology of Tropical Plant Communities

THURSDAY JULY 19

Room 3: Cervantes Saavedra (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Organized by:

- Horacio Paz, Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México
- Lourens Poorter, Forest Ecology and Forest Management Group, Centre for Ecosystem Studies, Wageningen University
- Louis Santiago, Department of Botany and Plant Sciences, University of California, Riverside
- Kaoru Kitajima, Department of Botany, University of Florida

09:50 Overview by Symposium Organizer

10:00 Whole-plant light compensation points and the meaning and measurement of shade tolerance in tropical trees

Thomas Sean C. and Baltzer Jennifer L.

10:20 Differences in whole-plant carbon gain between pioneer species in the early phases of secondary succession in tropical rain forest

Anten Niels, Oomen Roelof and Selaya Galia

10:40 Dynamic photosynthetic responses and light gradient partitioning **Montgomery Rebecca A. and Givnish Thomas J.**

11:00 Coffee break

11:20 Ecological benefits and costs of physical defense in tropical tree seedlings

Kitajima Kaoru

11:40 Functional analysis of palm allometry: do morphological constraints determine palm distribution across light environments?

Avalos Gerardo, Gei Maria Gabriela, Fernandez Mauricio and Sylvester Olivia

12:00 Are species adapted to their regeneration niche, adult niche, or both?

Poorter Lourens

12:30 Lunch



22 Pollination in Natural and Fragmented Communities

THURSDAY JULY 19

Room 4: Sala Rectores (Second Floor)

Building: Centro Cultural Universitario

Organized by:

- W. Scott Armbruster, University of Portsmouth

09:50 Overview by Symposium Organizer

10:00 Character displacement among bat-pollinated flowers of the genus *Burmeistera*: analysis of mechanism, process, and pattern

Muchhala Nathan and Potts Matthew D

10:20 Vulnerability of the pollination systems of columnar cacti (tribe Pachycereeae) in arid and semiarid areas of Mexico

Valiente-Banuet Alfonso

10:40 The ecology of "special" rewards in the tropics: plant-pollinator co-specialisation and web symmetry

Armbruster W. Scott

11:00 Coffee break

11:20 Pollination, plant reproduction, and population genetics in fragmented habitats: facing theory with evidence

Aguilar Ramiro, Quesada Mauricio, Herrerias Yvonne, Ashworth Lorena, Galetto Leonardo, Lobo Jorge and Aizen Marcelo

11:40 The effects of tropical forest fragmentation on euglossine bees in southern Costa Rica

Berry J. Brosi

12:00 Multiple Allee effects in plant regeneration in a fragmented landscape

Jaboury Ghazoul

12:20 Conclusion Symposium

12:30 Lunch



23 Part I Biosphere reserves: a sound strategy for the conservation of biological diversity and development in the American tropics?

THURSDAY JULY 19

Room 1: Teatro José Ruben Romero

Building: Teatro José Ruben Romero (Auditorium)

Organized by:

- Sergio Guevara Sada, Departamento de Ecología Funcional, Instituto de Ecología, A.C., Xalapa, Veracruz, México

09:50 Overview by Symposium Organizer

10:00 Hotspots and Conservation. A misleading Paradigm

Soberon M Jorge

10:20 Biosphere Futures, UNESCO Biosphere Reserves for Sustainable Development Programme on Man and the Biosphere (MAB)

Clüsener-Godt Miguel

10:40 Is it worth protecting Biosphere reserves?

Gonzalez-Montagut Rene

11:00 Coffee break

11: 20 Biosphere reserves: a mexican project for conservation and development

Ernesto Enkerlin

11:40 Protected areas, cauldron of sustainable development

Moreno-Casasola Barceló Patricia

12:00 Tropical forest research in Biosphere Reserves in Mexico: perspectives, challenges, and opportunities

Martinez-Ramos Miguel

12:30 Lunch



#24 Linking Tropical Biology with Human Dimensions in the West Indies and Beyond

THURSDAY JULY 19

Room 1: Teatro José Ruben Romero

Building: Teatro José Ruben Romero (Auditorium)

Organized by:

- Brian M. Boom, Director, Caribbean Biodiversity Program. The New York Botanical Garden
- Jesús Danilo Chinea Rivera, Departamento de Biología. Universidad de Puerto Rico, Mayagüez

13:50 Overview by Symposium Organizer

14:00 The Caribbean Islands: A Microcosm for Biodiversity Research that Benefits Human Welfare

Smith Michael Leonard and Gorenflo Larry

14:20 Integrating the Human Factor into the Luquillo Long-Term Ecological Research Program: Past, Present, and Future

Zimmerman Jess K., Hein Katie, Crowl Todd A., Munoz Erickson Tischa, Gonzalez Caban Armando, Covich Alan C., Scatena Frederick N., Hall Charles A.S. and Loomis John B.

14:40 Human dimension of land-use history in the Luquillo Experimental Forest, Puerto Rico

García Montiel Diana

15:00 Coffee break

15:20 Predicting the influence of climate change on biodiversity in the Greater Antilles: an example using Anolis lizards

Knouft Jason, and Consiglio Trisha

15:40 Multi-Scale Interactions Between Ecological Systems and Indigenous Peoples: Biocomplexity, Interdisciplinarity and Practical Approaches

Vieira Fragoso Jose, Strong Joel, Silvius Kirsten M., Read Jane M., Gibbs James B., Chave Jerome, de Oliveira L.F.B. and Miller Robert P.

16:00 Conclusion Symposium



20 Part II Seed dispersal and seed predation in Neotropical palms

THURSDAY JULY 19

Room 2: Conservatorio de las Rosas (Auditorium)

Building: Conservatorio de las Rosas

- 14:00 Seed predation and the Arecaceae: a valid model for tropical systems?
Brewer Steven
- 14:20 Seed dispersal and predation in two Atlantic Forest palms with different responses to habitat loss
Pires Alexandra dos Santos, Andreazzi Cecilia Siliansky de, Pimenta Clarissa Scofield, Fernandez Fernando Antonio dos Santos and Galetti Mauro
- 14:40 Hunting indirectly alters the abundances of insect seed predators
Wright S. Joseph, Galvez Dumas and Jansen Patrick A.
- 15:00 Coffee break
- 15:20 Hunting relieves recruitment limitation in a Neotropical palm
Jansen Patrick A., Van Eijk Pieter, Wright S. Joseph and Muller-Landau Helene
- 15:40 Impact of vertebrate defaunation on seed predation and dispersal of palms: implications for rain forest conservation
Mendoza Eduardo and Donatti Camila
- 16:00 A plague of palms: why large-seeded *Attalea* form monodominant stands in anthropogenic landscapes
Vieira Fragoso Jose Manuel and Silvius Kirsten Mariana
- 16:20 Conclusion Symposium



21 Part II Functional Ecology of Tropical Plant Communities

THURSDAY JULY 19

Room 3: Cervantes Saavedra (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

- 14:00 Drought tolerance strategies of tropical forest plants from contrasting habitats
Santiago Louis
- 14:20 Drought tolerance and water relations: Regional and global perspectives
Zanne Amy, Ackerly David, Coomes David and Wright Ian
- 14:40 Plant Hydraulic Strategies in Subtropical Shrub Communities
Bhaskar Radika, Ackerly David and Valiente-Banuet Alfonso
- 15:00 Coffee break
- 15:20 Divergence of adaptive traits to wet vs. dry microhabitats in a tropical dry forest
Paz Horacio and Pineda-Garcia Fernando
- 15:40 Seedling traits determine drought survival and distribution of Bolivian tropical tree species
Markesteijn Lars and Poorter Lourens
- 16:00 Staying and Leaving... Functional Traits Along Gradients of Tropical Dry Forest Succession
Lebrija-Trejos Edwin, Peters Erik, Perez-Garcia Eduardo A., Meave Jorge A., Bongers Frans and Paz Horacio
- 16:20 Conclusion Symposium



23 Part II Biosphere reserves: a sound strategy for the conservation of biological diversity and development in the American tropics?

THURSDAY JULY 19

Room 5: Aula Mater (First Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

14:00 Restoration ecology as a tool for conservation in Biosphere reserves
Lopez Barrera Fabiola and **Guevara Sada Sergio**

14:20 Urban Biosphere Reserve: an alternative for the life quality in the cities
Pesci Rubén

14:40 Integrating Biodiversity Conservation, knowledge and sustainable development: The experience of the Mata Atlântica/Brasil's Biosphere Reserve.
Lino Clayton F.

13:00 Conclusion Symposium



ORAL PRESENTATIONS

Forest fragmentation and conservation genetics of plants

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Monday July 16

- 10:00 Comparing natural and anthropogenic fragmentation in the sub-Saharan tree species *Acacia mellifera*
Ruiz Guajardo M en C Juan Carlos; Otero Arnaiz Dr. Adriana; Schnabel Dr. Andrew; Stone Dr. Graham
j.guajardo@ed.ac.uk
- 10:20 Impacts of habitat fragmentation on genetic structure and ecological traits of seven plant species a tropical forest in Mexico
Sandra Cuartas-Hernández; Elsa Figueroa; Pilar Suárez; Bernardo Aguilar; Mariana Chávez Pesqueira; Lilibeth Toledo; Alejandro Montero; Graciela García Guzmán; Juan Núñez-Farfan
scuartas@biologia.udea.edu.co
- 10:40 Potential regeneration of two canopy trees in fragments of the Los Tuxtlas tropical rain forest: effects of seed size, family and plants' natural enemies
Mariana Chávez Pesqueira; Lilibeth Toledo; Juan Núñez-Farfan
farfan@servidor.unam.mx
- 11:00 Coffee Break
- 11:20 Pollen Dispersal Limitation in Fragmented Populations of Tropical Live Oak (*Quercus oleoides*)
Deacon Nicholas; Cavender-Bares Jeannine
deac0004@umn.edu
- 11:40 Modeling long-term impacts of selective logging on the genetics and demography of tropical tree species.
Marilyn D. Loveless; Alexandre Sebbenn; Bernd Degen
mloveless@wooster.edu
- 12:00 Long term analysis of habitat fragmentation on the genetic structure of *Ceiba aesculifolia*
QUESADA MAURICIO; HERRERIAS-DIEGO YVONNE; LOBO JORGE A.; STONER KATHRYN E.; SANCHEZ-MONTOYA GUMERSINDO
ydiego@oikos.unam.mx



Restoration of tropical ecosystems. Part I

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Monday July 16

- 10:00 Riparian vegetation diversity, stakeholder use and management practices and restoration activities in the Ayuquila watershed, western Mexico.
Ortiz-Arrona Claudia Irene; Gerritsen Peter R.W.; Martinez Rivera Luis Manuel
cortiz@cucsur.udg.mx
- 10:20 LA RESTAURACION DE LA VEGETACION RIPARIA Y VEGETACION SECUNDARIA EN PAISAJES TROPICALES FRAGMENTADOS
Ramos Prado Jose Maria
jramos0555@yahoo.com.mx
- 10:40 STRATEGY FOR AYUQUILA RIVER RESTORATION
Martinez R. Luis Manuel; Ortiz A. Claudia I.; Santana C. Eduardo; Garcia R. Salvador; Perez C. Gabriela; Graf M. Sergio; Gerritsen Peter R.W.; Contreras M. Sarahy; Santana M. Francisco J.; Iniguez D. Luis I.; Aguirre G. Angel; Olguin L. Jose Luis; Sand
lmartinez@cucsur.udg.mx
- 11:00 Coffee Break
- 11:20 Use of Arbuscular Mycorrhizal Fungi for restoration of Tropical Rain Forest: a proposal model.
Sanchez-Gallen Irene; Alvarez-Sanchez Javier; Guadarrama Patricia
fjas@hp.fciencias.unam.mx
- 11:40 Effects of stress treatments on Pteridium aquilinum in sites with arrested succession in the Lacandon Tropical Forest, Chiapas, Mexico
Penaloza-Guerrero Cristina B.; Perez-Salicrup Diego R.
cpenaloza@oikos.unam.mx
- 12:00 Effect of herbivore exclusion on seedling community in successional oldfields in La Selva Lacandona, Chiapas, Mexico
Mora Francisco; Martinez-Ramos Miguel
fmora@oikos.unam.mx



Biological & Social Bases for Sustainable use of NTP. Part I

Room 8: Enrique Shuls (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Monday July 16

- 10:00 Assessment of Sustainable Leaf Harvest from the Understory Palm, *Chamaedorea radicalis*
Ash Jeremy D.; Gorchov David L.; Endress Bryan A.
ashjd@muohio.edu
- 10:20 Effect of silvicultural management on population dynamics of *Polaskia chichipe* (Cactaceae) in the Tehuacán-Cuicatlán Valley, Mexico
Farfan Heredia Berenice; Casas Fernandez Alejandro; Martinez Ramos Miguel; Lopez Hoffman Laura
farfan73@gmail.com
- 10:40 Use of Amazonian floodplain trees
Wittmann Florian; De Oliveira Wittmann Astrid
F-Wittmann@web.de
- 11-00 Coffee Break
- 11:20 Functional responses to repeated defoliation in three commercially exploited palm species of the genera *Chamaedorea* from Mexican tropical forests
Martinez-Ramos Miguel; Anten Niels; Ackerly David; Hernandez-Barrios Juan Carlos
juan.carlos.hb@gmail.com
- 11:40 Demographic analysis of the impact of illegal extraction of heart of palm from *Euterpe precatoria* in Costa Rica.
Fernandez Mauricio; Avalos Gerardo
maufero@gmail.com
- 12:00 Management options for the endangered, micro-endemic palm, *Sabal pumos* based on demographic analyses and harvester surveys.
Aguilera-Taylor Irene; Corzo Dominguez Alexandra; Monroe Ian; Lopez-Hoffman Laura
egamega@hotmail.com



Population and Community Ecology of Tropical System. Part I

Room 9: Aristóteles (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Monday July 16

- 10:00 Effect of the physical environment and land use history in the structure and composition in a sub-tropical dry forest in Puerto Rico
Agosto-Diaz Ramon
rmnagosto@yahoo.com
- 10:20 PLANT COMMUNITY STRUCTURE UNDER AND OUTSIDE TREE AGGREGATES IN
"CAMPO CERRADO" (SAO PAULO - BRAZIL)
MOURA LEILA icmourarc.unesp.br; **ARASATO LUCIANA**
icmoura@rc.unesp.br
- 10:40 Determinants of tree species spatial distribution in a neotropical forest
Garzon Lopez Carol Ximena ; Olf Han; Jansen Patrick; Bohlman Stephanie
c.x.garzon-lopez@rug.nl
- 11-00 Coffee Break
- 11:20 Palm Community Structure and Land Cover Changes in the San Juan Biological Corridor, Costa Rica
Wang Ophelia
opheliawang@mail.utexas.edu
- 11:40 Impacts of ancient Maya forest gardens on the tree species composition of Northwestern Belize
Ross Nanci
nanci.ross@uconn.edu
- 12:00 Tropical swamps in the Gulf of Mexico, relationship between geomorphology, hydroperiod and plant diversity.
Infante Mata Dulce; Moreno-Casasola Patricia
dulce.infante@posgrado.inecol.edu.mx



Ecology and Seed dispersal. Part I

Room 10: Manuel Altamirano (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Monday July 16

- 10:00 The importance of figs and fruit-eating birds in anthropogenic ecosystems: a transcontinental comparison
Caughlin Trevor; Wheeler Jessica H.; Ganesh T.; Lowman Margaret
trevor.caughlin@gmail.com
- 10:20 A trade-off between attraction and protection in bird dispersed fruits
Cazetta Eliana; Schaeffer Martin; Galetti Mauro
eliana.cazetta@gmail.com
- 10:40 Are scarlet macaws (*Ara macao*) and mealy parrots (*Amazona farinosa*) redundant pre-dispersal seed predators? Evidence from the Osa Peninsula, Costa Rica
Riba Pablo
proyectocarey@yahoo.com.mx
- 11:00 Coffee Break
- 11:20 Secondary dispersal by dung beetles and fate of *Rollinia edulis* (Annonaceae) seeds dispersed by two primate species in the Serrania Las Quinchas, Colombia.
Santos-Heredia Maria Carolina; Andresen Ellen; Zarate-Caicedo Diego Alejandro
macasahe@gmail.com
- 11:40 SECONDARY SEED DISPERSAL BY DUNG BEETLES IN RAINFOREST SITES WITH DIFFERENT LEVELS OF HABITAT DISTURBANCE IN SOUTHERN MEXICO
Ponce-Santizo Gabriela; Andresen Ellen
gabrielamasai@yahoo.com
- 12:00 Influence of seeds and fruits on the abundance of small rodents and their relationship with seed predation and dispersal of the araucaria 'pine' *Araucaria angustifolia* in the Araucaria Forest
Vieira Emerson M.; Iob Graziela; Kindel Andreas; Seger Guilherme
emersonmv@unisinis.br



Effects of forest Fragmentation on Tropical Systems

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Monday July 16

- 14:00 Population density of *Dipteryx panamensis*, the food and nesting tree of the endangered Great Green Macaw (*Ara ambigua*) in Costa Rica
Chun Sara Lai Ming; Carranza Sanchez Jorge
sara.chun@duke.edu
- 14:20 Establishment and growth of two tropical rain forest arboreal plant species in the context of a fragmented landscape: The role of Arbuscular mycorrhizal fungi.
Patterson Audra; Alvarez Sanchez Javier, Dr.
astrocaryum@gmail.com
- 14:40 Species and structural composition of church forests in a fragmented landscape of Northern Ethiopia
Wassie Alemayehu; Sterck Frank; Bekele Tesfaye; Teketay Demel; Bongers Frans
Alemayehu.Wassie@wur.nl
- 15:00 Coffee Break
- 15:20 Rainforest Loss and Resultant Changes in the Avifauna of Palenque, Chiapas
Patten Michael; Gomez de Silva Garza Hector; Smith-Patten Brenda
mpatten@ou.edu
- 15:40 EFFECT OF TREE DIVERSITY AND DISTANCE TO FOREST INTERACTION ON BIRD TS IN SILVOPASTORAL SYSTEMS, MATIGUAS, NICARAGUA
Ramirez Leonardo R; Harvey Celia A; Casanoves Fernando; De Clerck Fabricio
leoramir@catie.ac.cr



Restoration of tropical ecosystems. Part II

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Monday July 16

- 14:00 Recruitment potential of isolated trees in tropical pastures of Southeastern Mexico
Garcia-Orth Ximena; Martinez-Ramos Miguel
xgarcia@oikos.unam.mx
- 14:20 Interindividual variation in phenology and seed production within a stand of three tree species
Armijos Claudia; Gunter Sven; Moreira Maximo
ccarmijos@utpl.edu.ec
- 14:40 Endangered island floras: fast growth rates and short lifespans create significant challenges for conservation and restoration of the Hawaiian lobeliads
Montgomery Rebecca A.; Givnish Thomas J.
rebeccam@umn.edu
- 15:00 Coffee Break
- 15:20 EVALUATING ARTIFICIAL REEFS FOR CORAL RECRUITMENT IN PUHAWANG AND MUNA ISLANDS OF INDONESIA
Widiastuti Endang; Kanedi Muhammad; Natha Frans
elwidi@yahoo.com



Biological & Social Bases for Sustainable use of NTP. Part II

Room 8: Enrique Shuls (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Monday July 16

- 14:00 Managing mistletoe in an NTFP-based livelihood system
Rist Lucy; Uma Shaanker R; Milner-Gulland EJ; Ghazoul Jaboury
lucy.rist@ic.ac.uk
- 14:20 Selection of sexually produced seedlings of a clonally propagated crop in a traditional Amerindian agroecosystem
Duputié Anne,; Massol François,; David Patrice,; Haxaire Claudie; McKey Doyle
anne.duputie@cefe.cnrs.fr
- 14:40 Coffee as a biodiversity host in its center of origin
Hylander Kristoffer, Nemomissa Sileshi
kristoffer.hylander@botan.su.se
- 15:00 Coffee Break
- 15:20 Is productivity of cacao impeded by epiphytes? An experimental approach
Sporn Simone Goda; Gradstein Robbert; Bos Merijn
ssporn@gwdg.de
- 15:40 Sustainable forest use in Brazilian extractive reserves: natural regeneration of Brazil nut in exploited populations
Lucia H.O. Wadt; Kainer Karen A.; Staudhammer Christina L.; Serrano Rodrigo O.P.
kkainer@ufl.edu



Population and Community Ecology of Tropical System. Part II

Room 9: Aristóteles (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Monday July 16

- 14:00 Patterns of floristic differentiation among Atlantic forests and the influence of climate II:
The southern scenario
Oliveira-Filho Ary; Jarenkow Joao Andre; Budke Jean Carlos
ary.oliveira.filho@gmail.com
- 14:20 Community structure of bracket fungi (Polypores) and shelf fungi in Southeast Asia
Satoshi Yamashita; Tsutomu Hattori; Tohru Nakashizuka
satosi-y@chikyu.ac.jp
- 14:40 Change in spatial distribution patterns of five species in a landscape in Chajul, Mexico
Salinas-Melgoza Miguel Angel; Martinez-Ramos Miguel; Rodriguez-Velazquez Jorge Enrique
ma.masm@gmail.com
- 15:00 Coffee Break
- 15:20 Comparing canopy succession of *Cedrela odorata* in a tropical dry and moist forest using
tree rings
Brienen Roel; Zuidema Pieter; Martinez-Ramos Miguel
roelbrienen@hotmail.com
- 15:40 Spatial variation in palm fruit abundance across a tropical moist forest estimated from
aerial photographs
Jansen Patrick A.; Bohlman Stephanie A.
p.a.jansen@rug.nl
- 16:00 REINTRODUCTION OF THE THREATENED JAVANESE PALM *Pinanga javana* Blume
Widyatmoko Didik; Dodo
didik_widyatmoko@yahoo.com



Ecology and Seed dispersal. Part II

Room 10: Manuel Altamirano (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Monday July 16

- 14:00 Phenology, frugivory and seed dispersal of *Aniba rosaeodora* var. *amazonica* Ducke (Lauraceae): and endangered tree of the central Amazonian terra firme forest
Spironello Wilson; Sampaio Paulo
wilson@inpa.gov.br
- 14:20 COMMUNITY-LEVEL DISTANCE EFFECTS ARE PERVASIVE THROUGH MULTIPLE STAGES OF TREE RECRUITMENT IN AN AMAZONIAN RAINFOREST
Swamy Varun; Terborgh John
vs12@duke.edu
- 14:40 The fitness advantage of long distance dispersal: results of a long-term genetic study of *Jacaranda copaia*.
Jones Andy
jonesf@si.edu
- 15:00 Coffee Break
- 15:20 Pervasive predation of nutmeg (*Virola koschnyi*) seed by land crabs (*Gecarcinus quadratus*) in the Osa peninsula, Costa Rica.
Riba PABLO; Terry Jennifer
proyectocarey@yahoo.com.mx
- 15:40 Dispersal dynamics affect the distribution, but not the abundance, of tropical trees: A study of tropical tree communities in Amazonian Peru
Dexter Kyle
kyle.dexter@duke.edu
- 16:00 Fruit-frugivore interaction in a Neotropical savanna: a megafauna-deprived land?
Donatti Camila; Galetti Mauro; Pizo Marco Aurelio; Guimaraes Jr. Paulo R.; Jordano Pedro
cdonatti@stanford.edu



Herbivory

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Tuesday July 17

10:00 The influence of the endophytic fungi on diversity of herbivores in *Baccharis dracunculifolia* DC (Asteraceae).

Oki Yumi

yumioki1@gmail.com

10:20 Plant cell suicide mimics herbivore damage

Fernandes Wilson G.

gwilson@icb.ufmg.br

10:40 Plant diseases as ecological drivers in plant community diversity: The importance of microclimate variation

Ayala-Orozco Barbara

barbaraayala@yahoo.com

11-00 Coffee Break

11:20 Differential allocation of resources to reproduction, has consequences for growth and defense and herbivory in three sympatric species of *Chamaedorea* (Arecaceae) in Los Tuxtlas, Mexico

Cepeda Cornejo Veronica; Dirzo Minjarez Rodolfo

vcepeda@ecologia.unam.mx

11:40 Are female plants better defended against herbivores than hermaphrodites in gynodioecious species?

German Avila; Mauricio Quesada

german.avila-sakar@msvu.ca



Biodiversity Inventories and Conservation. Part I

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

- 10:00 Angiosperm distribution patterns in the Neotropics: generating species ranges from monograph-based point-to-grid data
Raedig Claudia; Lautenbach Sven
raedig@uni-leipzig.de
- 10:20 How do individual species structure biodiversity in tropical forests
Huth Andreas; Wiegand Thorsten; Gunatilleke Savithri; Gunatilleke Nimal
huthkasten@aol.com
- 10:40 A comparison of diversity and distribution patterns of lichens, liverworts, mosses, and pteridophytes in Andean montane forests
Mandl Nicole; Lehnert Marcus; Kessler Michael; Gradstein S. Robbert
nmandl@uni-goettingen.de
- 11-00 Coffee Break
- 11:20 Tropical tree barcoding, a case study in french guiana
Gonzalez Mailyln Adriana; Chave Jerome; Vicedo Celine; Thebaud Christophe
mgonzale@cict.fr
- 11:40 Tree species diversity in Yunnan Province, SW China
Cao Min
caom@xtbg.ac.cn
- 12:00 Achieving Target 2 of the Global Strategy for Plant Conservation: Building a Preliminary Assessment of Vascular Plant Species Using Data from Herbarium Specimens
Krupnick Gary A.; Kress W. John; Wagner Warren L.
krupnickg@si.edu



Ecology and Conservation of Mammals. Part I

Room 8: Enrique Shuls (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

- 10:00 Breeding behavior of *Leptonycteris yerbabuenae* (Phyllostomidae: Glossophaginae):
Female choice or male power?
**Sotner Kathryn E.; Henry Micka!«I; Quesada Mauricio; Avila Cabadilla Luis Daniel;
Chaves Oscar M.; Nassar Jafet M.**
kstoner@oikos.unam.mx
- 10:20 Density of Primates in the Central Amazonian Terra Firme Forests
Spironello Wilson; Rodrigues Liliam; Rosas-Ribeiro Patricia
wilson@inpa.gov.br
- 10:40 Explaining patterns of group decline and infant mortality in a Panamanian population of
mantled howler monkeys
Hopkins Mariah
mhopkins@nature.berkeley.edu
- 11-00 Coffee Break
- 11:20 Niche Divergence of Two Species of New World Primates: White-faced and Bearded
Sakis in Suriname
Gregory Tremaine; Norconk Marilyn
tremster@hotmail.com
- 11:40 Why didn't the bandicoot cross the road?
Byrnes Peter; Goosem Miriam; Dennis Andrew
Peter.Byrnes@jcu.edu.au
- 12:00 Ecology of the water opossum, *Chironectes minimus*, in Atlantic Forest streams in
southeastern Brazil
Galliez Maron; Leite Melina S.; Queiroz Thiago L.; Fernandez Fernando A. S.
rodentia@biologia.ufrj.br



Social and Economic Drivers of Change of Tropical Ecosystems. Part I

Room 9: Aristóteles (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Tuesday July 17

- 10:00 Local causes of deforestation in the Kalakad-Mundanthurai Tiger Reserve in the southern Western Ghats, India
Davidar Priya; Arjunan M.; Puyravaud Jean Philippe
pdavidar@gmail.com
- 10:20 Land-Use Change in Bolivia: Who, Where, When, and How Much
Killeen Timothy
t.killeen@conservation.org
- 10:40 The Challenge of cattle ranching to common property and Chacoan dry forest in the Isoso, Bolivia
Villasenor Veronica
verovi62@yahoo.com
- 11:00 Coffee Break
- 11:20 Transformation Ecosystems Analysis in the Colombian Andes Region
Bernal Nestor; Rincon Alexander; Rodriguez Nelly; Franco Carol
nrbernal@humboldt.org.co
- 11:40 The Ecological Crisis in Chiapas (southern Mexico) â a Central American Dilemma
Richter Michael
sairecabur@web.de
- 12:00 Is polewood too complex for sustainability? An interdisciplinary analysis of the commercialization of small diameter tropical trees in Quintana Roo, Mexico
Racelis Alexis
aracelis@ucsc.edu



Ethonobiology

Room 10: Manuel Altamirano (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

10:00 A collaborative research process for studying fruit availability and seed dispersal within an indigenous community of the Middle Caqueta river region, Colombian Amazonia

Parrado-Rosselli Angela

parrado-rosselli@uniandino.com.co

10:20 Ancient Tea Garden within Natural Forest-A World Heritage Agro-ecosystem in Southern Yunnan, China

Sha Liqing; Guo Huijun; Sheng Caiyu; Cui Jingyun; Qi Danhui

shalq@xtbg.ac.cn

10:40 Applying indigenous knowledge to the restoration of degraded tropical rain forest dominated by bracken.

Douterlungne David; Levy Israel Tacher Samuel; Golicher Duncan; Roman Danobeytia Francisco

daviddouter@hotmail.com

11-00 Coffee Break

11:20 Quantitative ethnoecology as a tool for biodiversity conservation in silvopastoral systems of Nicaragua

Ramirez Leonardo R; Casanoves Fernando; Harvey Celia A; De Clerck Fabricie

leoramir@catie.ac.cr

11:40 Traditional knowledge as a basis for planning conservation at the Uacari Sustainable Development Reserve, Amazon, Brazil

Marinelli Carlos Eduardo; F. Batista Romulo; S. Valente Rafael; P. Kasecker Thais

caemari@gmail.com

12:00 Community Landscape Planning for Rural Areas: A Model for Biocultural Resource Management

del Amo Silvia; Vergara-Tenorio Maria del Carmen; Ramos Prado Jose Maria; Porter Bolland Luciana

sdelamo@uv.mx



Pollination and plant reproduction. Part I

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Tuesday July 17

- 14:00 An account of vivipary in the cactus family
Cota-Sanchez Hugo; Deise Deusa; Reyes-Olivas Alvaro; Sanchez-Soto Bardo
hugo.cota@usask.ca
- 14:20 Incidence of floral herbivory and the variation of reproductive performance of *Eriotheca gracilipes* (Bombacaceae) in two Brazilian savanna physiognomies
Del Carlo Sylene; Buzato Silvana
sylene@uol.com.br
- 14:40 Evolution of pollination systems in *Ruellia* (Acanthaceae)
Tripp Erin
eat8@duke.edu
- 15:00 Coffee Break
- 15:20 Do dioecious species have larger seeds than cosexual or monoecious species?: Cross-species and phylogenetic analyses among neotropical rainforest species of SE Peru
Mazer Susan J.; Vamosi Steven M.
mazer@lifesci.ucsb.edu
- 15:40 Pollinator attraction and intersexual mimicry in dioecious fig species
Martine Hossaert-McKey; Jean-Marie Bessière; Magali Proffit; Catherine Soler; Renée M. Borges; Chen Chun
hossaert@cefe.cnrs.fr
- 16:00 Community structure of fig wasps in *Ficus benjamina*
Bai Lifan; Yang Darong
bailf@xtbg.ac.cn



Biodiversity Inventories and Conservation. Part II

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

- 14:00 SPACIAL DISTRIBUTION THE COMMUNITIES OF ORCHIDS EPYPHYTIC IN THE RAIN FOREST AND CLOUD FOREST IN THE EJIDO VILLA DE GUADALUPE, HUIMANGUILLO, TABASCO, MEXICO.
Almeida-Cerino Carlos; CASTILLO_ACOSTA OFELIA; VALDEZ-HERNANDEZ JUAN
castillo_ofelia@hotmail.com
- 14:20 Biogeography and diversity of tree species of the Maya Mountains, Belize: a comparison of igneous and limestone substrata.
Brewer Steven
brewers@uncw.edu
- 14:40 Modern pollen rain-vegetation relationships from the lacandon forest, Chiapas, Mexico
Dominguez Vazquez Gabriela; Islebe Gerald A.
gdoquez@yahoo.com.mx
- 15:00 Coffee Break
- 15:20 CONVERSION OF ARAUCARIA FOREST TO ECOLOGICALLY-SUSTAINABLE TREE MONOCULTURES: PATTERNS OF ALPHA DIVERSITY FOR TEN TAXONOMIC GROUPS
Ganade Gislene; Fonseca Carlos Roberto; Baldissera Ronei; Becker Carlos Guilherme; Boelter Carlos; Brescovit Antonio; Fleck Tomas; Fonseca Vanda; Kaffer Marcia; Leal-Zanchet Ana; Marcelli Marcelo; Mondin Claudio; Paz Claudia; Petry Virginea; Putzke Jair
gganade@unisinis.br



Ecology and Conservation of Mammals. Part II

Room 8: Enrique Shuls (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

- 14:00 Studying large and medium sized terrestrial mammals in a lowland rainforest in southeast Peru, through the use of camera traps
Carrillo-percastegui Samia ; Tobler Mathias; Powell George
samiac@email.arizona.edu
- 14:20 PREDICTIVE HABITAT AND POPULATION VIABILITY MODELS FOR JAGUARS (PANTHERA ONCA) IN THE SIERRA MADRE ORIENTAL, MEXICO
Ramirez Bravo Osvaldo Eric; Lopez Gonzalez Carlos Alberto
ermex02@yahoo.com
- 14:40 Habitat Preferences on white-lipped peccary groups in Calakmul Forest, Mexico
Reyna Rafael
rafaelrh@ufl.edu
- 15:00 Coffee Break
- 15:20 Habitat preferences of ungulates in fragmented landscapes in the Selva Lacandona, Chiapas, Mexico.
Tejeda Carlos ; Naranjo Eduardo
tejedac@unach.mx
- 15:40 Individual identification of paca (Cuniculus paca) by tracks
Contreras-Diaz Rusby Guadalupe; Santos-Moreno Antonio; Alfaro Ana Ma.
asantosm90@hotmail.com
- 16:00 Noah's first task: priority and irreplaceable ecoregion sets for Neotropical vertebrate conservation
Dias Loyola Rafael; Kubota Umberto; Michael Lewinsohn Thomas
avispa@gmail.com



Social and Economic Drivers of Change of Tropical Ecosystems. Part II

Room 9: Aristóteles (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

- 14:00 A Comparison of Land Use /Land Cover Change in Two Regions of the Selva Maya: Socioeconomic and Institutional Drivers of Deforestation and Forest Conservation
Ellis Edward Alan; Porter Bolland Luciana
ellis_eddie@yahoo.com
- 14:20 THE ENVIRONMENTAL AND ECONOMIC IMPACTS OF MANGROVE CONVERSION
Younie-Gillham Justine
justineyouniegillham@yahoo.co.uk
- 14:40 Land use impact in the inland water-land ecotones of the Orinoco lowlands: the patterns and fractal analysis
San José, J; R. Montes; E. Aguirre Ruiz; C. Buendía; D. Thielen; N. Matute
eaguirre@ivic.ve
- 15:00 Coffee Break
- 15:20 Mesoamerican Biological Corridor: Was the message delivered?
Ramos Luis Antonio
laramos@ufl.edu
- 15:40 Perceptions and knowledge of rural people towards the ecological roles of vertebrates in shade coffee plantations in Cuetzalan, Mexico
Lopez del Toro Paulina; Andresen Ellen; Barraza Lomeli Laura
paulinalopezdeltoro@yahoo.com



Ecosystems services

Room 10: Manuel Altamirano (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

- 14:00 How the relationship between biodiversity and ecosystem function can be detected in a natural varying environment?
Ruiz-Jaen Maria C.
maria.ruizjaen@mail.mcgill.ca
- 14:20 Carbon stocks and emissions dynamics, derived from land use change process
Ordonez Diaz Jose Antonio Benjamin; Masera Omar; Garcia Oliva Felipe; Ruiz Luis Gerardo; de jong Ben
mordonez@servidor.unam.mx
- 14:40 Carbon sequestration project, from integral management of the common resources options, for indigenous and rural communities in Oaxaca, Mexico
Perez-Gonzalez Carlos Marcelo; Vasquez Barranco Ines Guadalupe; Rodriguez-Rojas Elizabeth; de la Rosa-Pablo Fermin Rafael; Ordonez Diaz Jose Antonio Benjamin
mordonez@servidor.unam.mx
- 15:00 Coffee Break
- 15:20 Long-term impacts of fuelwood harvesting and the potential for provision of ecosystem services of tropical montane cloud forests in central Veracruz, Mexico
Ruger Nadja; Williams-Linera Guadalupe; Huth Andreas
nadja.rueger@ufz.de
- 15:40 Nest tree specificity, pollen utilisation and impacts of firewood collection on carpenter bee populations in India
Somanathan Hema
Hema.Somanathan@cob.lu.se
- 16:00 Setting up Long Term Eco-Hydrological Monitoring Basis for the Cuitzmala River Basin
Pina Poujol Pablo; Maass Manuel
ppina@ualberta.ca



Ecology & Conservation of Birds. Part I

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Wednesday July 18

- 10:00 From Forests to Cities: Effects of Urbanization on a Neotropical Bird Community
MacGregor-Fors Ian; Morales-Perez Lorena; Schondube Jorge E.
ian@oikos.unam.mx
- 10:20 Analysis of Distribution and Abundance of an Endangered Tropical Bird by Means of Machine-Learning Methods: the Ocellated Turkey (*Meleagris ocellata*) in Yucatan peninsula, Mexico
Kampichler Christian; Calme Sophie; Weissenberger Holger
christian.kampichler@web.de
- 10:40 Conservation of endemic birds in montane successional mosaics in Western Mexico.
Santana C. Eduardo; Contreras Sarahy; Schondube Jorge; Jardel Enrique; Munguia Heriberto
esantana@cucsur.udg.mx
- 11-00 Coffee Break
- 11:20 RECOVERY OF TROPICAL AVIFAUNA IN RELATION TO FOREST SUCCESSION FOLLOWING SLASH-AND-BURN AGRICULTURE AT CALAKMUL BIOSPHERE RESERVE, CAMPECHE, MEXICO.
Salgado-Ortiz Javier; Robertson Raleigh J.
javo_salgado@yahoo.com.mx
- 11:40 MANAGEMENT PERSPECTIVES OF RIPARIAN SYSTEMS IN NORTHWESTERN MEXICO
José Fernando Villaseñor
jfvillasenorg@hotmail.com
- 12:00 Patterns of bird species diversity in the Pantanal of Mato Grosso, Brazil
Cortes-Figueira Jose Eugenio; Cintra Renato; Rodrigo Viana Leonardo
cortes@icb.ufmg.br



Forest Management and Selective Logging. Part I

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Wednesday July 18

- 10:00 Forest management impacts on neotropical wet forest vegetation: a long-term experimental study at two Costa Rican sites
Finegan Bryan; Alfaro Reyna Teresa; Delgado Diego
bfinegan@catie.ac.cr
- 10:20 The effect of silviculture on the recovery of overexploited mahogany (*Swietenia macrophylla*) populations in Bolivia
Pena-Claros Marielos; Verwer Caspar; van der Staak Daniel; Sterck Frank J.; Ohlson Kristen
mpena@ibifbolivia.org.bo
- 10:40 Treefall gaps of certified forests as regeneration sites for neotropical timber
Kukkonen Mari; Rita Hannu; Hohnwald Stefan; Nygren Anja
mari.kukkonen@helsinki.fi
- 11-00 Coffee Break
- 11:20 Sustainable Management of Neotropical Mountain Rain Forests - An Ecological Experiment -
Sven Gunter; Konrad Fiedler; Robbert Gradstein; Wolfgang Wilcke; Franz Makeschin; Reinhard Mosandl
sven_gunter@yahoo.de
- 11:40 How sustainable are tropical forest managements in Amazonia?
Jochen Schi_ ngart
jschoen
- 12:00 Effects of selective logging on the abundance, regeneration and short-term survival of *Caryocar costaricense* (Caryocaceae) and *Peltogyne purpurea* (Caesalpinaceae), two endemic timber species of southern Central America
Quesada Mauricio; Lobo Jorge Arturo; Barrantes Gilberth; Fuchs Eric; Castillo Marvin; Quesada Ruperto; Solis Silvia; Maldonado Tirso
jorgelobosegura@gmail.com



Ecology Evolution and Conservation of Arthropods. Part I

Room 8: Enrique Shuls (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Wednesday July 18

- 10:00 Parsimony Analysis of Spider Distributions in the Caribbean
Klawinski Paul
klawinskip@william.jewell.edu
- 10:20 The use of different methods to sample the bee fauna (Hymenoptera, Apoidea), a study in the Araucaria Forest in Santa Catarina, Brazil.
Krug Cristiane; Alves-dos-Santos Isabel
isabelha@usp.br
- 10:40 Fuzzy set in the evaluation of the conservation state of the land use systems in the Occidental Amazonia, using beetles (Scarabaeidae) as bioindicators
Urushima Navares Elisa Toshie
elisनावares@uol.com.br
- 11-00 Coffee Break
- 11:20 Rapid spatial turnover of invertebrate communities within habitats: Implications for planning protected areas in Amazonian terra firme forests
Larsen Trond
tlarsen@princeton.edu
- 11:40 NATURAL HISTORY AND CONSERVATION OF THE BRAZILIAN OIL-COLLECTING BEES
Alves-dos-Santos Isabel
isabelha@usp.br
- 12:00 Low beta diversity of ambrosia beetles (Coleoptera: Curculionidae: Scolytinae and Platypodinae) in lowland rainforests of Papua New Guinea
Hulcr Jiri
hulcr@msu.edu



Human Development and Sustainability. Part I

Room 9: Aristóteles (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Wednesday July 18

- 10:00 Social networks: tying the community knots for managing biodiversity
Chaudhary Pashupati
pashupati.chaudhary@umb.edu
- 10:20 Evolving participatory frameworks for reconciling conservation and livelihoods in India
Rai Nitin; Krishnan Siddharth; Setty Siddappa; Kavitha A.; Kannan Ramesh; Thomas Samuel; Joseph Gladwin
nitinrai@atree.org
- 10:40 Amazonian Protected Areas for Sustainable Use Monitoring Program: a participative proposal
Marinelli, C.E.; Carlos, H.S.A.; Batista, R.F.; Roh!«, F.; Waldez, F.
caemari@gmail.com
- 11:00 Coffee Break
- 11:20 Biodiversity conservation and human development in Costa Rican mountain forests
Criado Juan; Marin Melissa; Diaz Mario; Palacio Dolly
jcriado@fungap.org
- 11:40 Communitarian training for monitoring activities inside sustainable Use protected areas from Brazilian Amazon
Marinelli Carlos Eduardo; S. A. Carlos Henrique; F. Batista Romulo; Waldez Fabiano; Roh!« Fabio
caemari@gmail.com
- 12:00 Sierra del Divisor, Peru: Biological and Social Inventory, Conservation, Indigenous Peoples, On-going Threats
Moskovits Debra; Vriesendorp Corine; Schulenberg Thomas; Alverson William; Rojas Moscoso Jose-Ignacio
cvriesendorp@fieldmuseum.org



Plant physiological Ecology. Part I

Room 10: Manuel Altamirano (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo
Wednesday July 18

10:00 Tree species functional types in a tropical wet forest: delimitation and relationship to taxonomic richness and local rarity

Salgado-Negret Beatriz; Finegan Bryan; Casanoves Fernando
bsalgado@catie.ac.cr

10:20 Phenological responses of forest trees to natural canopy gap formation

Alberti Luis Fernando; Morellato Patricia
pmorella@rc.unesp.br

10:40 Causes of inverse leafing phenology in *Bonellia nervosa* (Theophrastaceae)

Chaves Oscar
ochaba@gmail.com

11-00 Coffee Break

11:20 Respiration from coarse woody debris in an old-growth tropical rain forest, Costa Rica

Schwendenmann Luitgard; Ghebray Tesfay
lschwen@gwdg.de

11:40 Light competition between pioneer species early in secondary forest succession in Vietnam

van Kuijk Marijke; Anten Niels
marijkevankuijk@hotmail.com

12:00 Light incidence and its effects on the understory vegetation in tropical rain forest edges.

Mendez Moises; Benitez Malvido Julieta
mmtoribio@hotmail.com



Ecology & Conservation of Birds. Part II

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Wednesday July 18

- 14:00 MODELING SEASONAL DISTRIBUTION OF LILAC-CROWNED PARROT IN THE CENTRAL WESTERN STATE OF MICHOACAN, MEXICO
Ortega Rodriguez Juan Manuel; Moterrubio Rico Tiberio Cesar; Cancino Murillo Ramon
idrissi59@gmail.com
- 14:20 Influence of climatic variability on reproductive output of Lilac-crowned Parrots in tropical dry forest: results of a 12 year study
Renton Katherine; Salinas-Melgoza Alejandro
krenton@ibiologia.unam.mx
- 14:40 Nest and breeding behavior of the Citreoline trogon (Trogon citreolus)
Vega Rivera Jorge H.; Valdivia Talia; Vega Debora
jhvega@ibiologia.unam.mx
- 15:00 Coffee Break
- 15:20 Seasonality and origin of dietary protein in Neotropical arid zone birds inferred from stable isotope analysis.
Gonzalez-Carcacia Jose A.; Nassar Jafet M.; Herrera M. L. Gerardo; Martinez Helios M.
jnassar@ivic.ve
- 15:40 Ecological and Geographic Analysis of the Asian Nuthatches (Aves: Sittidae)
Menon Shaily; Islam Zafar-ul; Peterson Townsend
menons@gvsu.edu
- 16:00 Cytogenetic study as a tool for the reintroduction programme of Aburria jacutinga (Aves:Cracidae) in Rio de Janeiro city, Brazil.
Nogueira Denise Monnerat; Verona Carlos Eduardo; Souza Lucia Moreno; Quaresma Larissa; Freitas Andrea de Andrade Rangel
denisemn@hotmail.com



Forest Management and Selective Logging. Part II

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Wednesday July 18

- 14:00 Regeneration of an endangered timber tree species after harvesting in southeast Mexico
Lopez-Toledo Leonel; Martinez-Morales Mariana; Burslem David; Martinez-Ramos Miguel
llopez@oikos.unam.mx
- 14:20 Changes in forest structure and diversity in polewood forests of Quintana Roo, Mexico
Racelis Alexis
aracelis@ucsc.edu
- 14:40 Trade-offs among timber production, fire susceptibility, and carbon sequestration in Bolivian semi-evergreen moist forests
Blate Geoffrey Blate
geoffblate@yahoo.com
- 15:00 Coffee Break
- 15:20 Tree Species Richness and Composition 15 years after Strip Clear-Cutting
Rondon Xanic J.; Gorchov David L.; Cornejo Fernando
rondonxj@muohio.edu
- 15:40 Effects of a historical fire event on the tree diversity of an Amazon lowland rainforest
Horchler Peter J.
horchler@bafg.de
- 16:00 Phylogeography of Brazil-nut tree (*Bertholletia excelsa*, Lecythidaceae): evidence of human influence on the species distribution.
Gribel Rogerio; Lemes Maristerra R.; Bernardes Laura G.; Pinto Alessandra E.; Shepard Jr. Glenn
rgribel@inpa.gov.br



Ecology Evolution and Conservation of Arthropods. Part II

Room 8: Enrique Shuls (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Wednesday July 18

14:00 Paper Wasp Brains: Neural Mirrors of Ecological Strategies and Social Organization

Molina Yamile; Harris Robin; O'Donnell Sean

ymolina@u.washington.edu

14:20 Landscape patterns of honeybee production in Puerto Rico in response to climate change

Delgado Diana; Galindo-Cardona Alberto; Restrepo Carla

dianadelourdes@hotmail.com

14:40 Characterization of leaf galls of the pepper shaft, *Erythrina lithospermae* in Gisting â?" Lampung Province, Indonesia

Nukmal Nismah; Widiastuti Endang; Sari Evita

nnukmal@yahoo.com

15:00 Coffee Break



Human Development and Sustainability. Part II

Room 9: Aristóteles (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Wednesday July 18

- 14:00 Community involvement in conservation: the case of the Eastern Pacific Green Sea Turtle (*Chelonia mydas*) in Bahia Magdalena, BCS, Mexico
Hinojosa Gustavo
ghinojosa@fieldstudies.org
- 14:20 Indigenous Maya appropriation of nature in the northeastern Yucatan peninsula: lessons for biodiversity conservation and sustainable development
Garcia-Frapolli Eduardo; Toledo Victor; Martinez-Alier Joan
frapolli@oikos.unam.mx
- 14:40 A computer system for soil assessment to determine land suitability in a rural community in Mexico
Murguia Miguel; Munoz Daniel; Hernandez Mayra; Lopez Francisco
miguelmurguia@gmail.com
- 15:00 Coffee Break
- 15:20 Biodiversity and conservation of a sclerophyllous forest in Northern Peru
Aragon Susan; Woodcock Deborah
saragongeo@yahoo.com
- 15:40 Urban ecology issues in Australia's wet tropics: opportunities and challenges in a World Heritage Landscape
Turton Stephen
steve.turton@jcu.edu.au
- 16:00 Persistent Organic Pollutants in American oysters and sediment from the Chijol Canal and the Pueblo Viejo Lagoon, Veracruz, Mexico.
Borabe Luz; Sericano Jose L.; Garcia-Murillo Antonieta; Carrillo-Romo Felipe de Jesus
borabe@yahoo.com



Plant physiological Ecology. Part II

Room 10: Manuel Altamirano (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Wednesday July 18

- 14:00 Seedling performance of *Gilbertiodendron dewevrei* under simulated light conditions helps explain its monodominant stands in Central African forests.
Hall Jefferson S.; Saltonstall Kristin; de Paul Medjibe Vincent
hallje@si.edu
- 14:20 Neotropical seedling dynamics: relative contributions of light availability and conspecific seedling and adult densities to mortality in 23 woody species
Vriesendorp Corine; Kobe Richard
cvriesendorp@fieldmuseum.org
- 14:40 An analysis of the role of water, herbivores and light in determining plant distributions.
Kursar Thomas A.; Coley Phyllis D.; Brenes-Arguedas Tania; Blundo Cecilia; Rivas Gonzalo; Rios Marcos; Lukasik Piotr
kursar@biology.utah.edu
- 15:00 Coffee Break
- 15:20 Carbon dynamics in the aboveground wood biomass of wetland forests in the Pantanal and Central Amazonia
Schlingart Jochen; Nunes da Cunha Catia; Warren Coraciara Stadtler Eva; Arieira Julia; Felfili Fortes Caroline; Cezarine de Arruda Erica
jschoen
- 15:40 Multiple Effects of Cadmium on the Photosynthetic Apparatus of *Avicennia germinans* L. as Probed by OJIP Chlorophyll Fluorescence Measurements
Gonzalez-Mendoza Daniel; Zapata-Perez Omar; Espadas y Gil Francisco; Santamaria Jorge
edafo2000@yahoo.com



Global Change

Room 11: Erodoto (First Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Wednesday July 18

- 14:00 Rapid change in Amazonian forest dynamics: effects of climate change?
Laurance Susan; Nascimento Henrique; Condit Richard; Laurance William
laurances@si.edu
- 14:20 Climatic Change and the Amazon Forest Tree Phenology
Morellato Patricia; MoCambite Pinto Antonio
pmorella@rc.unesp.br
- 14:40 Using predictive models of species' distributions to evaluate the effects of climate change in Bolivia: conservation implications
Fernandez Miguel; Zambrana-Torrel Carlos M.; Calderon Javier; Tejeda Wendy; Villanueva Gabriela; Villalpando Gabriela; Hamilton Healy
cmzambranat@gmail.com
- 15:00 Coffee Break
- 15:20 Internal nitrogen cycling in tropical forest soils
Arnold Julia; Corre Marife; Edzo Veldkamp
jarnold@gwdg.de
- 15:40 Spatial variation in solar irradiance and the recruitment of rainforest trees at Khao Yai National Park, Thailand
Greenberg David; Brockelman Warren; Natalang Anuttara
greenber@lifesci.ucsb.edu
- 16:00 Modeling and predicting the effects of global warming on range shifts, biotic vacuums, and mountaintop extinctions in the tropics
Robert K. Colwell; Gunnar Brehm; Catherine L. Cardelús; Alex C. Gilman; John T. Longino
colwell@uconn.edu



Succession in tropical Ecosystems

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Thursday July 19

- 10:00 Evidence against the intermediate disturbance hypothesis from the dry tropical forests of Old Providence Island, Colombia.
Ruiz Jorge; Fandino Maria Claudia
ruizlmc@yahoo.com
- 10:20 Patterns of forest succession in northeastern Costa Rica: aboveground biomass, species richness, and species composition in a chronosequence of 30 sites
Letcher Susan G. Letcher
susan.letcher@uconn.edu
- 10:40 Diverging successional pathways " recovery from controlled and uncontrolled selective logging of dipterocarp forest
Lincoln Philippa; Pinard Michelle A.; Smith Pete
p.lincoln@abdn.ac.uk
- 11-00 Coffee Break
- 11:20 species dynamics in secondary forests
van Breugel Michiel; van Breugel Paulo; Mendez Bahena Alfredo; Bongers Frans; Martinez Ramos Miguel
michiel.vanbreugel@wur.nl
- 11:40 STRUCTURE AND COMPOSITION OF SECOND-GROWTH SEASONALLY DRY TROPICAL FORESTS IN YUCATAN, MEXICO
Dupuy Rada Juan Manuel; Collantes Chavez Alejandro; Benavides Rosales Gabriel; Yam Uicab Oscar; Calvo Irabien Luz Maria; May Pat Filogonio
jmdupuy@cicy.mx
- 12:00 Chronosequences may help predict plant community structure and dynamics: the case of a tropical dry forest succession
Maza Villalobos Mendez Susana; Martinez-Ramos Miguel
smaza@oikos.unam.mx



Phylogeny and Phylogeography of plants

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Thursday July 19

- 10:00 Origin and Evolution of *Spondias purpurea* (Anacardiaceae)
Miller Allison
amille75@slu.edu
- 10:20 Phylogenetic relationships among *Inga* (Fabaceae) species from Manaus, Amazon, Brazil.
Maristerra R. Lemes; Raquel R. Alencar; Phyllis D. Coley; Gabriela S. Farias; Thomas Kursar; Mahatma S. A. Porto; R. Toby Pennington
mlemes@inpa.gov.br
- 10:40 Phylogeny and introgression in Bornean Dipterocarpaceae
Kamiya Koichi; Tachida Hidenori
nazenazenenan@yahoo.co.jp
- 11-00 Coffee Break
- 11:20 Comparative phylogeography of Caribbean wetland plant species
Rivera-Ocasio Elsie; Rauscher Jason T.; Aide T. Mitchell; McMillan W. Owen
elsierivera@yahoo.com
- 11:40 Geographic origins and domestication processes in a tropical tree fruit, *Chrysophyllum cainito* (Sapotaceae)
Petersen Jennifer J.; Parker Ingrid M.; Potter Daniel
jjpeters@ucdavis.edu
- 12:00 Modeling niche conservation with community phylogenetic distance as a response variable: a model selection approach to the identification of metacommunities
Oliveira-Filho Ary; Pennington Toby; Rotella Jay; Lavin Matt
mlavin@montana.edu



The Ecological Role of Ants in tropical ecosystems. Part I

Room 8: Enrique Shuls (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Thursday July 19

- 10:00 Leaf-cutting ants as ecosystem engineers: Microclimatic gradients in the vicinity of *Atta cephalotes* nests
Meyer Sebastian T.; Leal Inara R.; Tabarelli Marcelo; Wirth Rainer
meyerst@rhrk.uni-kl.de
- 10:20 Cutting More from Cut Forests: Drastic Edge Effects on Colony Density and Herbivory Pressure of Leaf-Cutting Ants
Wirth Rainer; Leal Inara R.
wirth@rhrk.uni-kl.de
- 10:40 Ancient human landscape modifications affect contemporary ecosystem functioning: the ecology of an ant-plant seed dispersal mutualism in pre-Columbian raised-field complexes in seasonally flooded savannas of French Guiana
Delphine Renard; Doyle McKey
delphine.renard@cefe.cnrs.fr
- 11-00 Coffee Break
- 11:20 Plant recruitment on inactive nests of the leaf-cutting ant *Atta cephalotes* in the Brazilian Atlantic Forest
Bieber Ana Gabriela Delgado; Tabarelli Marcelo; Leal Inara R.
irleal@ufpe.br
- 11:40 Consequences of habitat fragmentation in the Brazilian Cerrado to an ant-plant mutualism (*Tococa guianensis* and *Allomerus* sp.)
Vasconcelos Heraldo; de Moraes Sinara Cristina
heraldo@umuarama.ufu.br



Invasive Species in the Tropics

Room 9: Aristóteles (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Thursday July 19

- 10:00 African grass invasion in a tropical freshwater marsh: Knowing the invasion process to propose a restoration strategy
Lopez Rosas Hugo; Moreno-Cassola Patricia; Mendelssohn Irving A.
hugo.lopez.rosas@posgrado.inecol.edu.mx
- 10:20 Restoration attempts through non-native species removal: experimental results from a lowland wet forest in Hawaii
Ostertag Rebecca; Cordell Susan; Michaud Jene; Cole Colleen
ostertag@hawaii.edu
- 10:40 Psidium cattleianum: Ecology and impacts of an invasive tropical tree.
Denslow Julie S.; Uowolo Amanda L.; Purell Melora K.; Yanagida John F.; Zimmerman Naupaka
jdenslow@fs.fed.us
- 11-00 Coffee Break
- 11:20 Inter-population variation in seed germination of *Calotropis procera* Ait. (Ait.) F. (Apocynaceae) in Brazil
Newton P. U. Barbosa; Lélis A. C. Júnior; G. Wilson Fernandes; Fernando A. O. Silveira
faosilveira@terra.com.br



Ecology and Conservation of Amphibians and Reptiles

Room 10: Manuel Altamirano (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo
Thursday July 19

- 10:00 Edge effect on tropical herpetofauna: The influence of seasonality and edge orientation
Urbina-Cardona J. Nicolas; Reynoso Victor Hugo
nurbina@yahoo.com
- 10:20 Last Glacial Maximum Distributions of Neotropical rattlesnakes based on Ecological Niche Modeling and Phylogeographic Information.
Adrian Quijada-Mascareñas; Juan Manuel Ortega; Wolfgang Wißler; A. Townsend Peterson
adrianquijada@hotmail.com
- 10:40 Space usage, movement patterns, and habitat selection of fer-de-lance (*Bothrops asper*) in Costa Rica
Wasko Dennis K.
Dennis@bio.miami.edu
- 11-00 Coffee Break
- 11:20 Frog reproduction dynamics in a savanna river
Torrez Carlos
lopez@ig.com.br



Pollination and plant reproduction. Part II

Room 6: Sala 2 (Second Floor)
Building: Centro Cultural Universitario
Thursday July 19

- 14:00 Does within-crown pollinator dispersal and self-fertilization promote stability of the mutualism between the Sonoran Rock fig and its fig wasp?
Gates Daniel; Nason John; Stireman John
danjgates@gmail.com
- 14:20 Diversification and coexistence of non-pollinating fig wasps on *Ficus petiolaris*, the Sonoran Desert rock fig
Day Kevin R.; Nason John D.; Bernhard Kristen K.; Stireman III John O.
kevind@iastate.edu
- 14:40 ¿oREPRODUCTIVE INVESTMENT COSTS AND POLLINATION INFLUENCE FLORAL LONGEVITY AND SCENT CHEMISTRY IN *Myrmecophila christinae* (Orchidaceae)â??
Parra-Tabla Victor; Abdala-Roberts Luis; Navarro Alberto Jorge; Salinas Peba Luis
turcotoman@hotmail.com
- 15:00 Coffee Break
- 15:20 REPRODUCTIVE ASPECTS OF THE ORCHID *Masdevallia ignea* IN CONDITIONS OF CULTURE IN THE BOTANICAL GARDEN JOSE CELESTINO MUTIS.
Chavarro Nathalia; Bonilla Maria Argenis; Cure Jose Ricardo; Pacheco Ricardo
nchavarro@gmail.com
- 15:40 Reproductive ecology of neotropical forests
Queenborough Simon
s.a.queenborough@sheffield.ac.uk



Litterfall and soil ecology

Room 7: Miguel Hidalgo (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Thursday July 19

- 14:00 The cumulative and spatial components of land use determine the soil biota and fertility in productive plots of Los Tuxtlas
Negrete-Yankelevich Simoneta; Barois Isabelle; Bennack Dan E.; Bueno-Villegas Julian; Fragoso Carlos; García José A.; Gómez José A.; Morón Miguel A; Rojas Patricia; Santos Martín; Sormani Carlo; Fuentes-Pangtay Tajín; Álvarez-Sánchez Javier; Cram Silk
simoneta.negrete@inecol.edu.mx
- 14:20 Litter fall accumulation and its relation with biotic and physical damage on plants in tropical rain forest edges
Zermeno-Hernandez* Isela; Benitez-Malvido Julieta
izermeno@oikos.unam.mx
- 14:40 Increased aboveground litterfall causes losses of carbon belowground
Sayer Emma J.; Tanner Edmund V. J.
sayere@si.edu
- 15:00 Coffee Break
- 15:20 The influence of rainfall and topography on the distribution of fruiting bodies of leaf litter fungi in a Central Amazonian forest: implications for inventory strategies
Braga-Neto Ricardo; Magnusson William
saci007@gmail.com
- 15:40 Quality of rooting environments and patterns of root colonization by arbuscular mycorrhizal fungi in strangler figs in a Mexican palmetto woodland
Guevara Roger; Lopez Juan Carlos
roger.guevara@inecol.edu.mx



The Ecological Role of Ants in tropical ecosystems. Part II

Room 8: Enrique Shuls (Second Floor)

Building: Colegio Primitivo de San Nicolás de Hidalgo

Thursday July 19

- 14:00 Spatial and seasonal variation in the foraging ecology of the forest-dwelling ant *Odontomachus chelifer* (Formicidae, Ponerinae)
Bottcher Claudia; Borges Laura P.; Pereira Eduardo R.; Oliveira Paulo S.
caubottcher@gmail.com
- 14:20 The effect of habitat type and temperature on the foraging activity of two species of army ants (*Eciton burchellii* and *Labidus coecus*) in Neotropical montane forest
Kumar Anjali; O'Donnell Sean
anjali2@u.washington.edu
- 14:40 Behavioral ecology at the insect-plant interface: oviposition by *Eunica bechina* butterflies on an ant-visited plant
Sendoya Sebastian F.; Freitas Andre V. L.; Oliveira Paulo S.
sebasendo@gmail.com
- 15:00 Coffee Break



Seed and Seedling Ecology

Room 9: Aristóteles (Second Floor)
Building: Colegio Primitivo de San Nicolás de Hidalgo
Thursday July 19

- 14:00 Distance and density effects near and far from conspecific adult trees: Non-?random seed dispersal matters for seedling recruitment of the tropical rainforest tree *Dipteryx oleifera*.
Ruiz Javier
jeruiz@umich.edu
- 14:20 Seedling dynamics and forest diversity: results from a lowland rainforest in Amazonian Ecuador
Metz Margaret
mmetz@berkeley.edu
- 14:40 Recognizing endophytic fungi carried in seeds of *Laelia speciosa*, others epiphytic orchids and its symbiotic relationship
Avila-Diaz Irene; Salgado-Garciglia Rafael; Oyama Ken
iavila@oikos.unam.mx
- 15:00 Coffee Break
- 15:20 Seedling recruitment of *Ipomoea pes-caprae* and *Canavalia rosea* at Laguna de la Mancha, Veracruz, Mexico
Devall Margaret; Moreno-Casasola Patricia
mdevall@fs.fed.us
- 15:40 Seed limitation and niche partitioning among neotropical seedlings
Norden Natalia; Chave Jerome
norden@cict.fr



Evolution and Genetic Diversity of plants

Room 10: Manuel Altamirano (Second Floor) Building: Colegio Primitivo de San Nicolás de Hidalgo
Tuesday July 17

- 14:00 Hybridization and genetic diversity of East Pacific black mangroves, *Avicennia germinans* (L.) L. and *A. bicolor* Standl. (Avicenniaceae)
Nettel Alejandro; Dodd Richard S.; Afzal-Rafii Zara
anettel@nature.berkeley.edu
- 14:20 Genetic variation in eight populations of *Acacia brevispica* (Fabaceae: Mimosoideae) in East Africa tropical savanna, levels of fine spatial genetic structure and family structure.
Otero Arnaiz Adriana; Marshal Michelle; Swearingen Andrew; Ruiz Guajardo Juan Carlos; Stone Graham; Schnabel Andrew
aotero@ine.gob.mx
- 14:40 The role of refugia in the intraspecific differentiation of *Aucoumea klaineana* (Burseraceae)
Born Celine; Alvarez Nadir; Ossari Simon; Muloko Nicole; McKey Doyle; Wickings E. Jean; Hossaert-McKey Martine; Chevallier Marie-Helene
celineborn@hotmail.com
- 15:00 Coffee Break
- 15:20 DNA bank of Brazilian endemic and endangered fauna.
Nogueira Denise Monnerat
denisemn@hotmail.com
- 15:40 Cryptic genetic bottlenecks and restoration of *Araucaria nemorosa*, a critically endangered New Caledonian endemic conifer
Kettle Christopher James; Jaffre Tanguy; Hollingsworth Pete; Ennos Richard A
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POSTERS

Restoration of tropical ecology

MONDAY JULY 16

Nurse plant vs Nurse object: The effects of woody plants and rocky cavities on the recruitment of the *Pilosocereus leucocephalus* columnar cactus

Munguia-Rosas Miguel Angel; Sosa Vinicio J.

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Growth Projection of Commercial Species Regenerating in Strip Clear-Cuts in the Peruvian Amazon

Rondon Xanic J.; Gorchov David L.; Noble Robert B.

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Recovery of mature forest tree species following slash-and-burn agriculture in the Yucatan Peninsula

Bonilla-Moheno Martha ; Holl Karen

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Survival and Growth of Stakes of Three Native Species for Restoration in Degraded Sites at Chiapas, Mexico

Gutierrez-Zamora Gabriela; Perez-Salicrup Diego R.

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Plant diversity and your effect in the generation of ecosystem services.

Quijas Sandra; Balvanera Patricia; Schmid Bernhard

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Spring restoration in brazilian cerrado in the experimental farm of embrapa gado de corte, campo grande,ms, Brazil

Albuquerque Lidiamar; Campos Mario Jorge; Borges Mamede; Mauro Rodney; Pregelli Danielle; Ramos Laura Cristina; Sone Isis ConceiCao; Pott Arnildo; Pott Vali

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Epiphytism in two restored cloud forests: Patterns and ecological implications

Olaya Arenas Paola Andrea; Murcia Carolina

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Fruiting trees as biodiversity promoters in tropical forests: a case study with *Cecropia* spp.



POSTERS

MONDAY AFTERNOON

Damineli Daniel Santa Cruz; Camargo Maria Gabriela Gutierrez de; Neves Carolina Lima; Caselli Christini Barbosa; Mendes Fabiana Rocha; Pires Alexandra dos Santos; Dirzo Rodolfo

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Trends in soil carbon with reforestation in the Neotropics

Marin-Spiotta Erika; Cusack Daniela; Ostertag Rebecca; Silver Whendee

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Forest fragmentation and conservation genetic

MONDAY JULY 16

Assessment of man-animal conflicts with special reference to the livestock depredation by lion (*Panthera leo persica*) and leopard (*Panthera pardus*) in Gir Ecosystem, India.

Dharaiya Nishith; Soni Vinod

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Phylogeography and conservation genetics of the Neotropical palm *Mauritia flexuosa* (Arecaceae)

Baiocchi Mariana; Caparroz Renato; Collevatti Rosane

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Effects of anthropogenic disturbances on the regeneration and population dynamics of *Bursera glabrifolia* in a tropical dry forest.

Hernandez-Apolinar Mariana

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Extensive gene flow in *Carapa guianensis* populations among fragmented habitats in the Osa Peninsula, Costa Rica

Lobo Jorge; Jiménez Dennis

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Rainforest Fragmentation and the Establishment of an Arboreal Palm (*Oenocarpus bacaba* Mart.) in Central Amazonia

Heloisa D. Brum; Henrique E. M. Nascimento; William F. Laurance; Ana C. S. Andrade; Susan G. Laurance

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Land-cover change and patterns of tree infection by the mistletoe *Dendropemon caribaeus* (Lorantaceae) in northern Puerto Rico.

Munoz Marcia Carolina; Restrepo1. Carla

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Determinants factors of dung beetles species richness (Coleoptera Scarabaeidae) in semideciduous forest fragments from Lavras - Brazil.

Louzada Julio ; Schiffler Gustavo

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POSTERS

MONDAY AFTERNOON

Effect of forest fragmentation on fruit and seed predation of the tropical dry forest tree *Ceiba aesculifolia*

Herrerias-Diego Yvonne; Quesada Mauricio; Stoner Kathryn E.; Lobo Jorge A.; Hernandez-Flores Yared

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Soil enzyme dynamics associated to C, N and P availability in a disturbed tropical dry ecosystem

Sandoval-Perez Ana L ; Gavito Mayra E; Garcia-Oliva Felipe; Jaramillo Victor J

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Effects of tropical dry forest fragmentation on progeny vigor of *Ceiba aesculifolia* (Bombacaceae)

Aguilar- Anguiano Maria Josefa; Herrerias- Diego Yvonne; Aguilar Ramiro; Ashworth Lorena; Quesada Mauricio

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The effects of habitat fragmentation on the interaction between larvae of Lepidoptera

Oki Yumi; Varanda Elenice M.; Diniz Ivone R.

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Leafing phenology of abundant tree species in fragmented and continuous rain forests in Central Amazonia

Bráulio A. Santos; José L. C. Camargo; Mariana R. Mesquita; Heloisa D. Brum; Isolde D. K. Ferraz

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Fragments of tropical rain forest on Tabasco, Mexico

Castillo_Ofelia Ofelia ; Zavala_Cruz Joel; Valdez-Hernandez Juan Ignacio; Palma_Lopez David; Vazquez_Negrin Isabel

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Seed survival and germination and seedling density of a tropical tree (*Dialium guianense*) dispersed by howler monkeys in rainforest fragments in Northern Chiapas, Mexico

Anzures-Dadda Alberto ; Manson Robert H; Andresen Ellen; Martinez Maria Luisa

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Genetic diversity of *Tillandsia recurvata* L. (Bromeliaceae) on their two main phorophytes at Zapotitlan Valley, Mexico

Solis Jeronimo Sandra Janet; Solorzano Lujano Sofia

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POSTERS

MONDAY AFTERNOON

Natural hybridization between cassava and a wild relative: implications for conservation

Anne Duputié; François Massol; Patrice David; Doyle McKey; Claudie Haxaire

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Ecological and evolutionary implications of hybridization between transgenic virus-resistant cultivars of Cucurbita pepo and wild Cucurbita argyrosperma

Cruz Rogelio; Medina Diana; Quesada Mauricio; Sanchez Gumersindo

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Genetic diversity of Green Stick (*Parkinsonia praecox*, Leguminosae) a useful firewood specie in Colonia San Martin, Tehuacan Valley in Puebla, Mexico.

Garcia-Gomez Veronica ; Davila Patricia; Campos Jorge; Solorzano Sofia

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Diversity of fungus in Tabasco, Mexico

Capello-Garcia Silvia ; Castillo_Acosta Ofelia

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Comparing the genetic diversity of *Prosopis laevigata* (Smooth Mesquite) in four natural populations, with different extraction levels in Colonia San Martin, in Puebla, Mexico.

Tapia Hector; Davila Patricia; Campos Jorge; Solorzano Sofia

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Evolutionary origins of a rain forest endemic: phylogeny and biogeography of the ant genus *Leptomymex* (Hymenoptera: Formicidae)

Andrea Lucky

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Forest structure and dynamics

MONDAY JULY 16

The Paradox of Generalist Species

Born Julia

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Tree functional trait variation in a biogeographically complex Mexican mountain cloud forest

Saldana Angela; Meave Jorge A.; Paz Horacio; Sanchez-Velasquez Lazaro; Villasenor Jose Luis; Martinez-Ramos Miguel

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Carbon and nitrogen pools in above- and belowground phytomass of secondary tropical dry forests after abandonment of different land uses

Romero Luz Piedad; Jaramillo Victor

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Population dynamics of *Manilkara zapota* (L.) Royen in a subtropical rain forest

Cruz-Rodriguez Juan Antonio; Lopez-Mata Lauro

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Estimations of Carbon stocks, C-sequestration and C-turnover in the aboveground wood biomass of black-water floodplain forests in Central Amazonia

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Tropy-dry

MONDAY JULY 16

Assessing the vertical structure of the woody material in the Tropical Dry Forest through LIDAR and Hyper spectral remote sensing

Mauricio Castillo-Núñez; Arturo Sánchez-Azofeifa; Benoit Rivard

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Restoration of tropical dry forests in Margarita Island, Venezuela: Countering arrested succession

Fajardo, L.; V. González; J. P. Rodríguez

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Tropi-Dry Brazil: a multidisciplinary, long-term study in the threatened Brazilian tropical dry forests

Mário Marcos Espírito-Santo; G. Wilson Fernandes; Marcílio Fagundes; Frederico de Siqueira Neves; Bruno Gini Madeira; Lemuel Olívio Leite; Yule Roberta Ferreira Nunes; Felisa Cani_ado Anaya; Ri_mulo Barbosa; Henrique Maia Valério; Cristina Sampaio; Afrán

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Diversity of tree-dwelling ants along a successional gradient of a seasonally dry tropical forest in Brazil.

Frederico de S. Neves; Rodrigo F. Braga; Bruno G. Madeira; G. Wilson Fernandes

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Sex-biased folivory in *Spondias purpurea*: importance of chemical quality and leaf age

Maldonado-Lopez Yurixhi; Cuevas-Reyes Pablo; Sanchez-Montoya Gumersindo; Quesada-Avendano Mauricio

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State of tree species with reduced populations or in danger of extinction in the dry forest of Guanacaste, Costa Rica

Ruperto Quesada; Branko Hilje

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Tree species populations in Area de Conservación Tempisque (ACT) Guanacaste Costa Rica

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POSTERS

MONDAY AFTERNOON

Tropi-Dry Venezuela: A proposal to study the biophysical and human dimensions of dry forests in the north-central Llanos region.

Nassar, J. M.; J. P. Rodríguez; E. Arias; A. Fernández; G. Obelmejías; V. Sanz.

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Does seed dispersal at the late dry season limit seedling establishment of dry-forest trees?

Daniel L. M. Vieira; Victor V. de Lima; Anderson C. Sevilha; Aldicir Scariot

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Mata Seca State Park, Northern Minas Gerais, Brazil: territory, human populations and biodiversity in a seasonally dry tropical forest.

Felisa Anaya; Rí_mulo Barbosa; Cristina Sampaio; Theresa Garvin

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Loss of carbon sequestration potential after several decades of shifting cultivation in the southern Yucatan.

James Michael Eaton; Deborah Lawrence

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Canopy herbivory in a dry forest-cerrado transition in Brazil.

Frederico de Siqueira Neves; Lucimar Soares de Araújo; Mário Marcos do Espírito Santo; Marcílio Fagundes; G. Arturo Sanchez Azoifeifa; Mauricio Quesada; Geraldo Wilson Fernandes

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Phenological patterns of trees under different successional stages of a Tropical Dry Forest

Fernandez Hernandez Paola; Quesada Avendano Mauricio; Alvarez Anorve Mariana; Sanchez-Montoya Gumersindo

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Pollination Ecology of Ipomoea ampullacea In The Tropical Dry Forest of Chamela-Cuixmala
Carrillo-Reyna Natalia; Rosas-Guerrero Victor; Sanchez-Montoya Gumersindo; Cuevas-Reyes Pablo; Quesada Mauricio

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Pollination of three sympatric species of Ipomoea (Convolvulaceae) in Chamela-Cuixmala tropical dry forest in western, Mexico

Rios-Diaz Cecilia Lucero; Rosas-Guerrero Victor Manuel; Sanchez Montoya Gumersindo; Quesada Avendano Mauricio; Cuevas-Reyes Pablo

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Herbivory

TUESDAY JULY 17

Antiherbivore protection by mutualistic spiders and the role of plant glandular trichomes

Gustavo Q. Romero; José César Souza; Joao Vasconcellos-Neto

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Strategies of *Chlosyne lacinia* caterpillars (Nymphalidae) to survive feeding on the toxic plant *Thitonia diversifolia* (Asteraceae).

Oki Yumi; Pinheiro Livia; Ambrosio Sergio; Varanda Elenice

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Conditional outcome in a spider-plant system: mutualistic spiders decrease herbivory in the dry, but not in the wet season

Morais-Filho Jose Cesar; Romero Gustavo Q.

gq_romero@yahoo.com.br

How do mutualistic ant-plant networks change after nine years in a seasonal coastal environment?

Diaz-Castelazo Cecilia ; Rico-Gray Victor

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Parasitoids of lepidopteran larvae in the Brazilian cerrado: Variation among host plants

Pessoa-Queiroz Rosevaldo; R. Diniz Ivone; D. Hay John; C. Morais Helena

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Layers of interaction in the ant-plant *Cordia alliodora*

Pringle Elizabeth G.; Gordon Deborah; Dirzo Rodolfo

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Inverted phenology in *Jacquinia nervosa*: A proximal mechanism to escape herbivory in a seasonally dry tropical forest?

Sanchez Octavio; Dirzo Rodolfo

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Galling species richness and age in reforested areas of Amazonian rain forest

Fernandes Geraldo; Almada Emmanuel; Carneiro Marco Antonio; Moreira Rennan

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POSTERS

TUESDAY AFTERNOON

Effect of defoliation in sexual expression and its impact on the pollination dynamics of *Cnidocolus aconitifolius* (Euphorbiaceae)

Arceo-Gomez Gerardo; Parra-Tabla Victor; Canto Azucena

gtarceo@hotmail.com

Larval ecology of the tropical processionary weevil, *Phelipera distigma* (Boheman) (Coleoptera: Curculionidae)

Pescador-Rubio Alfonso; Bautista-Lozada Alicia; Carrillo-Medrano Silvia; Ponce-Martinez Maria Luisa; Silva-Romero Jose A

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Effects of fragment size on plant-herbivore interactions in the Brazilian Atlantic Forest

Betsabé Ruiz; Alexandra Pires; Rodolfo Dirzo; Mauro Galetti

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Herbivory, ontogeny and ant colonization in *Cordia alliodora*.

Pascual-Alvarado Enrique; Herrera-Arroyo Maria Luisa; Quesada Mauricio

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Herbivory patterns in deciduous and riparian habitats: Effects of the folivory on the incidence of pathogens and foliar morphology in two tropical dry plant species

Banos Perez Raul; Perez Lopez Griselda; Medina Tapia Nubia; Mendoza Cuenca Luis; Quesada Mauricio; Cuevas Reyes Pablo

gris_8321@hotmail.com

Gender effects of the tree *Spondias purpurea* on the survivorship of the larvae of the insect borer *Oncideres albomarginata* (Coleoptera: Cerambycidae)

Claudia Aurora Uribe-Mu; Mauricio Quesada

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Why are fruits colorful? The relative importance of achromatic and chromatic contrasts for detection by birds

Cazetta Eliana; Schaeffer Martin; Galetti Mauro

eliana.cazetta@gmail.com

The impact of antagonisms: effects of asymmetric morph florivory on the floral chemical defense of distylous shrub *Palicourea padifolia*

Sanchez Vanessa; Maldonado Yurixhi; Arreola Paola; Quesada Mauricio; Cuevas-Reyes Pablo; Mendoza-Cuenca Luis

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POSTERS

TUESDAY AFTERNOON

Experimental evaluation of the effects of two insects on growth and survival of the invasive tree *Melaleuca quinquenervia* in Florida

Sevillano Lucero; Pratt Paul; Horvitz Carol

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Biodiversity inventories & conservation

TUESDAY JULY 17

Community structure of dung beetles (Coleoptera: Scarabaeidae) in different land use systems of the Brazilian Amazon

Louzada Julio; Silva Paulo; Schiffler Gustavo

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Integrated Conservation and Development Projects (ICDPs): A New View for the Future of Biodiversity Projects

Sanfiorenzo-Barnhard Colibri; Rojas-Sandoval Julissa

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Identifying priority areas for conservation in Mexican tropical deciduous forest based on tree species

Cue B-i-r Eva Maria

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Research at the Osa Biodiversity Center, Osa Peninsula, Costa Rica

Larsen Trond

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Opportunities for Biodiversity Conservation in Northern Peru

Alonso Alfonso

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Conservation of vascular epiphyte diversity in secondary forests and citrus plantations in Los Tuxtlas, Veracruz, Mexico

Perez Pena Adam; Kroemer Thorsten

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Susceptible areas of vegetation in Mexico before the climatic change

Trejo Irma

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Mexican mangroves: Current state and the establishment of a long-term monitoring program

Rodríguez-Zuñiga Teresa; Acosta-Velazquez Joanna; Cerdeira-Estrada Sergio; Cruz-López Isabel; Ascención-Merino Margarita; Ressler Rainer; Ocaña-Nava Daniel; Colín-



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A Manual of Field Methods for the Rapid Assessment of Terrestrial Biodiversity

Alonso Leanne E.

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Interaction of spatial arrangement with killing agent on cricket (Orthoptera: Grylloidea) sampling efficiency

Sperber Carlos Frankl; Werneck Rachel Miranda; Soares Luiz Gustavo Souto; Vital Marcos Vinicius Carneiro; Szinwelski Neucir

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Assessing Regional Land Cover Change in the Lerma-Chapala-Santiago Watershed through the

Use of Satellite Imagery

Christman Zachary

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Automated remote data collection as a new tool to monitor tropical biodiversity

Acevedo Miguel; Corrada Carlos; Aide T. Mitchell; Villanueva Luis

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Image Identification Systems: An Automated Plant Identification Tool for Exploration and Discovery in the 21st Century

Kress W. John; Belhumeur Peter; Jacob David; Feiner Steve; Lopez Ida; Russell Rusty; White Sean; Farr Ellen; Zhang Ling

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Multiple analyses of environmental and structural variables to characterization of Quercus and Pinus forests in the La Primavera, Jalisco, Mexico

Santiago Ana Luisa; Villavicencio Raymundo

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Addressing the causes of rarity of Fouquieria purpusii in the Tehuacan Valley, south central Mexico

Sortibrán Lugui; Valiente-Banuet Alfonso; Medina-Sánchez Javier

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<http://www.helechos.com.mx> a useful tool for ecologists and biologists

Palacios-Rios Monica



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An illustrated guide to the ferns of Xalapa, Veracruz, Mexico

Palacios-Rios Monica; Hernandez Gomez Rene

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Ecology and conservation of vertebrates

TUESDAY JULY 17

Variation of detection probability of medium and large-size terrestrial mammals using camera traps in the Central Amazon, Brazil

Arteaga Maria Clara; Spironello Wilson R.; Ferraz GonCalo; Sanderson James

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Effects of certified forest management on the bird community in a Mexican Pine-Oak forest

Andresen-Ellen Aguilar-George Ivete

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Diet flexibility and diet item treatment in the golden-backed uacari,

Barnett Adrian; Bezerra Bruna; Spironello Wilson

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A Comparison of Bat Activity in Clear-Cuts and Forest Edges in Toledo District, Belize and Delaware, USA

Wolcott Kelly; Vulinec Kevina; Grisbone Gianna; Yung Rochelle; Howe Leslie; Pakeman Shantel; Bernberg Lana

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How do terrestrial mammals affect tropical plant functional diversity?

Kurten Erin; Carson Walter; Ackerly David; Dirzo Rodolfo

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How close is close enough? Forest gaps and movement of tropical forest birds

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Activity patterns and diet of two howler monkey troops (*Alouatta seniculus*) in an isolated Andean forest

Zarate Caicedo Diego Alejandro; Stevenson Pablo; Gomez Posada Carolina

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Effects of tropical dry forest disturbance on herpetofaunal assemblages

Suazo-Ortuno Ileri; Alvarado-Diaz Javier; Martinez-Ramos Miguel

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Avifauna diversity during secondary succession of a tropical dry forest at Nizanda, Oaxaca, Mexico

Heredia Abril; Meave Jorge A.; Rodriguez Vicente

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Does size matters?: Feeding and activity patterns of Mexican Howler monkey (*Alouatta palliata mexicana*) troops of contrasting size

Aguilar Melo Adriana Raquel; Cuarón Alfredo

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Living on the edge: Roads and edge effects on threatened insular endemic rodent populations

Fuentes-Montemayor, E.; Vázquez-Domínguez, E.; M. en C. Elisa Fuentes Montemayor; Andresen, E.; Benítez-Malvido, J.; Cuarón, A.D.; Valenzuela, D.

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Bird visitation to native and exotic fig trees in South Florida

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Influence of the anthropogenic disturbance on the amphibians and reptiles diversity of tropical ecosystems

Flores Dominguez Cesar; Sanchez Trejo Ruben; Garza Mourino Gabriela; Castellanos Paez Maria Elena; Benitez Diaz Miron Marcela Ivonne; Patino Espinosa Sandra Gisele

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Impact of artificial feeders on the foraging ecology of highland hummingbirds of Costa Rica

Avalos Gerardo; Alfaro Willy; Amador Sabrina

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Extinction risk for the mexican howler monkey (*Alouatta palliata mexicana*) in Los Tuxtlas, Mexico: Priorities between recovering area and reconnecting forest fragments

Escobedo-Morales Luis; Mandujano Salvador

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Priority ecoregion sets for conserving Neotropical threatened anurans with distinct development modes

Dias Loyola Rafael; Becker Carlos Guilherme; Kubota Umberto; Michael Lewinsohn Thomas

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POSTERS

TUESDAY AFTERNOON

Mechanisms underlying adult occupancy patterns: tadpole performance in pasture, edge, and forest sites

Hawley Tanya

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Estimation of abundance of Tepezcuintle (*Cuniculus paca*) from track in sierra norte de Oaxaca, Mexico

Alfaro Espinosa Ana Ma.; Santos-Moreno Antonio

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Body size in neotropical amphibian communities and its role in predicting their conservation status

Villanueva-Rivera Luis J., Delgado Johanna, Herrera Maria Isabel, Castro Fernando, Restrepo Carla.

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Pollination and plant reproduction

WEDNESDAY JULY 18

Seedling establishment of epiphytes in coffee plantations and forests

Scheffknecht Susanne; Winkler Manuela; Mata Rosas Martin; Garcia-Franco Jose Guadalupe; Hietz Peter

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Dispersal modes and fruit morphology of tree species in the tropical rain forest of Mexico

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Germination and seed viability of *Bursera copallifera* (DC.) Bullock (Burseraceae), a common tropical dry forest tree of Morelos, Mexico

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Propagation by cuttings of four *Bursera* species

Castellanos Carolina; Bonfil Consuelo

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Seed rain after a fire in a xerophytic shrubland

Castillo-Arguero Silvia; Martinez-Orea Yuriana

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Vegetative propagation of some tropical dry forest native species in abandoned agriculture lands in Nizanda, Oaxaca.

Luna-Nieves A. Lizzette; Perez-Garcia Eduardo; Martorell Carlos; Meave Jorge

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Seed bank variability among agriculture fields in a tropical dry forest region

Flores-Rodriguez Claudia; Meave Jorge A.; Perez-Garcia Eduardo A.

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Seed bank successional variation after slash-and-burn agriculture in a seasonally dry tropical forest

Mena-Gallardo Alejandra; Meave Jorge A.; Perez-Garcia Eduardo A.

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Sex ratio, growth rates and phenology of *C. schereberiana*, a dioecious tree in the Luquillo Forest Dynamics Plot, Puerto Rico

Forero Jimena; Zimmerman Jess K; Thompson Jill

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Floral morph and cross type effects on germination and seedling survival of *Ruellia nudiflora* (Engelm. & Gray) Urban (Acanthaceae)

Gutierrez-Barrera Elmy; Parra-Tabla Victor; Abdala-Roberts Luis

amavi07@hotmail.com

Seed production and autonomous self-pollination ability differ between the narrowly distributed *I. rubriflora* and its widespread congener *I. purpurea* (Convolvulaceae)

Astegiano Julia; Galetto Leonardo; Funes Guillermo; Musicante Mariana

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Recruitment patterns in tree species with different dispersal strategies in Peruvian Amazonian forest

Tauro Alejandra V.; Blundo Cecilia

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Microenvironmental factors of seedling establishment and growth of a harvested understory palm, *Chamaedorea radicalis*

Kilroy Hayley; Gorchov David

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Is *Gymnopodium floribundum* (Polygonaceae) a clonal tree?

Jackson Paula C.; Andrade Jose Luis; Reyes-Garcia Casandra; Mcelroy Thomas

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Biotic seed dispersal of the columnar cacti *Neobuxbaumia mezcalaensis* (Bravo) Backeberg in the Tehuacan Valley

Castillo Landero Juan Pablo; Valiente Banuet Alfonso

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Ovule fate in *Bauhinia brevipes* Vog. (Fabaceae), an endemic species of Brazilian Cerrado

Silveira Fernando A. O.; Carneiro Marco A. A.; Fernandes G. Wilson

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Phenotypic plasticity in seed germination of *Miconia albicans* SW Triana (Melastomataceae): are there phylogenetic constraints?



Sales Natalia M.; Januzzi M. Carolina; Silveira Fernando A. O.

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Propagation of *Lavoisiera imbricata* (Melastomataceae), a common species from Brazilian rock outcrops with economic potential

Ranieri Bernardo ; Lima Luis; Negreiros Daniel; Pezzini Flavia; Fernandes Geraldo

bernardo.dourado@gmail.com

Rarity effects of micro-habitat, phenology and reproductive success in two Gesneriaceae from the endangered Brazilian rock outcrops.

Ranieri Bernardo; Arruda Leandro; Pezzini Flavia; FranCa Marcel

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Reproductive success of *Laelia speciosa* (HBK) Schltr. (Orchidaceae) in two populations under different disturbance conditions in Michoacán, México.

Medina Nino Diana; Quesada Avendano Mauricio; Oyama Ken; Avila-Diaz Irene

iavila@oikos.unam.mx

Sexual Reproduction and Pollination Agents of *Chamaecrista glandulosa* var. *mirabilis* (Leguminosae: Cesalpinioidea)

Lopez-Colon Jonathan A. ; Marrero-Solis Solimar; Davila Eva

alfredo_lcpr@hotmail.com

Determination of reproductive characteristics of Lulo *Solanum quitoense* and effect of the pollination with *Bombus atratus* (Hymenoptera: Apidae) on the production.

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Pollination and seed dispersal patterns in three successional stages in a Tropical Dry Forest in southeastern Brazil

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Pollinator attraction to different flower morphs of *Bauhinia pauletia* Pers (Fabaceae)

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Pollination Biology of *Agave potatorum* in the Tehuacan-Cuicatlan Valley, Mexico

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Morphological variation in flowers of the sexually polymorphic tree *Jacaratia mexicana* (Caricaceae)

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Nectar traits of bat-pollinated flowers in a Tropical Dry Forest

Nelly Rodríguez-Peña; Kathryn E. Stoner; Mickaël Henry; Jorge E. Schondube; Jorge Ayala-Berdón; Cesar Mateo Flores-Ortiz

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N and P Resorption in Trees of Different Ecological Groups of the Mexican Tropical Rain Forest

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Stem and leaf hydraulics of congeneric tree species from adjacent tropical savanna and forest habitats

Hao Guang-You; Hoffmann William; Scholz Fabian; Bucci Sandra; Meinzer Frederick; Franco Augusto; Cao Kun-Fang; Goldstein Guillermo

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Are leaf and stem hydraulics determinants of dieback in tall *Sclerolobium paniculatum* savanna trees?

Zhang Yongjiang; Hao Guangyou; Goldstein Guillermo; Scholz Fabian; Bucci Sandra; Meinzer Frederick

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Hydraulic Architecture and Reverse Sap Flow in dwarf *Rizophora* mangrove plants

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Environmental controls over foliar nutrient concentrations in tropical rainforests

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Characteristics and controlling factors of photosynthesis of *Camellia Sinensis* leaves in rubber-tea community in Xishuangbanna

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Ecological interactions between columnar cacti and perennial plant along a stress gradient

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Diurnal variation of chlorophyll fluorescence in leaves of the "Bana" vegetation of the Amazon
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Characteristics of plant photosynthesis, soil respiration and their effects on diurnal change of overstory carbon flux in a tropical rain forest in Xishuangbanna, Southwest China

Zhang Yiping; Song Qinghai; Sha Liqing; Yu Guiru; Cao Min; Zheng Zheng; Wang Yuesi; Tang Jianwei; Zhao Shuangju; Wang Rui

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Ecology and ecophysiology of tropical hemiepiphytes

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Comparison of physiological responses of deciduous and evergreen species in a tropical dry deciduous forest

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Transplant of palms xate (*Chamaedorea elegans* and *Chamaedorea ernesti-augustii*) in forests sucesionales in Frontera Corozal, Chiapas.

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Tropical legume seeds and seedlings: initial nitrogen allocation of *Inga* seedlings

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Soil Quality and Allometry in *Syagrus glaucescens* Becc., an Endemic and Threatened Palm of the EspinhaCo Mountains, Brazil

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Demographic performance of the clonal understory herb *Calathea marantifolia* (Marantaceae) in different light environments

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Inter-specific variation in plant functional traits in response to a resource gradient in secondary tropical forests La Selva Lacandona, in Chiapas

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Effects of dehydration/hydration periods on germination of *Ipomoea wolcottiana* tree (Convolvulaceae) in a Mexican tropical dry forest.

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Temperature and light effects on seed germination of endemic Asteraceae species from rupestrian fields

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Understorey light availability and variation influences seedling response in disturbed montane forests

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Influence of habitat characteristics on *Annona glabra* in South Florida

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Divergences in the plastic response to water level between dry and humid habitat species of a tropical dry forest

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What's in Droseras' diet?

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Functional analysis of palm allometry: do morphological constraints determine palm distribution across light environments?

Gerardo Avalos; María Gabriela Gei; Mauricio Fernández; Gustavo Rojas; Olivia Sylvester; Katie Poirier

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Ontogenetic plasticity of biomass allocation in response to above- and below-ground resource availability in perennial shrubs: a case study of two species that differ in ecological breadth

Camargo-Rodríguez Iván Darío; Parra-Torres Edwin; Antolínez-Delgado Carlos Andrés; Camargo Andrés Alejandro; Rodríguez-López Nelson

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Phenology and Habitat Characterization of the Endangered Species *Chamaecrista glandulosa* var. *mirabilis* (Leguminosae: Cesalpiniodea)

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Reproductive Phenology of Central Amazonia Pioneer Species in Cecropia-dominated Secondary Forests

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Phenological patterns in a tropical Andean cloud forest

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Reproductive Phenology, Fruit Biomass and Dispersion Syndromes in two Atlantic Rainforest fragments With Different Conservation Status

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Periodicity of radial stem growth in evergreen tropical trees

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Plant communities

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Changes in tree and liana communities along a successional gradient in a tropical dry forest in southeastern Brazil

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Distribution of pteridophyte community along environmental gradients in Central Amazonia, Brazil.

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Lianas are increasing in biomass in a tropical wet forest in Costa Rica

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Mortality patterns in tropical timber trees of the Osa Peninsula, Costa Rica

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Is Central Amazon upland forest landscape homogeneous in diversity and floristic composition?

Farias Pinheiro Taise; Viane Soares Joao; Daleles Renno Camilo; Pic Annette

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Geographic reasons for an outstanding vascular plant diversity in southern Ecuador â?"

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Vegetation structures and ecological features of the upper tree line ecotone in southern Ecuador - an unusual case

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Distribution and abundance of very large trees in Central Amazonian terra-firme forest

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Variation in species richness of selected plant groups along three climatically contrasting elevational gradients in southeastern Veracruz, Mexico

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Richness and abundance of floral resources in two recovering habitats as a preliminary tracking of the community structure and function

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Diversity and succession dynamics in understory herb communities of lowland rainforests

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Origin of patchy vegetation in the coast of the South of Brazil

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Arbuscular mycorrhizal fungi dynamics in the tropical dry forest of Nizanda, Oaxaca

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Characterization of emerging Spathodea campanulata forests of north-central Puerto Rico

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Fruit-feeding butterflies as indicators of disturbance regime in a Brazilian Atlantic rainforest.

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Microbial communities and soil nutrient availability in a tropical dry forest of Mexico

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Diversity of fruit-feeding butterflies in tropical dry forests and homegardens at the buffer zone of Mata Seca State Park (Minas Gerais, Brazil).

Duque-Brasil Reinaldo; Madeira Bruno; Oliveira Victor; Espirito-Santo Mario

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Short-term soil microbial community responses to increasing plant diversity in a disturbed tropical humid environment.

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Diversity of endophytic fungi in *Bauhinia brevipes* (Fabaceae)

Amorim Mariana; Oki Yumi; Costa Daniela U. E.; Correa Jr Ary; Santos Jean C.; Silveira Fernando A. O.

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Life history approach to allometric scaling and growth

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Ecosystem management

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Vergara-Santana Martha I.; Lemus-Juarez Sebastian; Diaz-Llerenas Ulises; Ibarra-Casilla Isabel; Soriano-Fajardo Ana Rosa

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A chemometrics approach in the environmental assessment of reservoirs in the Lerma river basin (Mexico) using water quality index, algal growth potential and lipid peroxidation

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Typha Management and Plant Community Response: a Diverse Harvest?

Hall Steven; Gomez-Romero Mariela; Aureoles-Celsa Esteban; Lindig-Cisneros Roberto; Zedler Joy

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Effect of forest fires and agriculture on forest structure in two sites at the Lacandona Rainforest, Chiapas.

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Effects of land use on fishes of the upper watershed La Antigua, Veracruz, Mexico

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Species-specific characteristics that influence tree health in the eastern Brazilian Amazon

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Annual rings provide evidence of ages of secondary forest patches

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Microbiosphere: Scientific Ecotourism for the sustainable development in the

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Integration of ecological, social, and economic factors in the analysis of the regulatory process of Heart of Palm Extraction from *Geonoma edulis* (Arecaceae)

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Phytoplankton and zooplankton production Laboratory for fish, mollusks and endemic crustaceans feeding of the Catemaco Lake, Veracruz (Mexico).

Garza Mourino Gabriela; Castellanos Paez Maria Elena; Benitez Diaz Miron Marcela Ivonne; Patino Espinosa Sandra Gisele; Sanchez Trejo Ruben; Flores Dominguez Cesar; Rodriguez Mourino Carlos Manuel

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Understory diversity and structure under *Pinus pseudostrobus* plantations in Nuevo San Juan Parangaricutiro, Michoacán, Mexico

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Current and potencial use of Seasonally Dry Tropical Forest in Chamela, Mexico

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Effect of *Bursera simaruba* stakes and the cutting of *Pteridium aquilinum* on seed rain and seedling establishment in the Yucatan Peninsula

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Biological control of *Haematobia irritans* (L.) in Colima, Mexico, using local strains of entomopathogenic fungi (Hyphomycetes).

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Provision of ecosystem service of infiltration in the basin of the Rio Cuitzmala in México.

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Human development and tropical ecosystem

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Tropical Ecology Group of the British Ecological Society

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Synergistic effects of roads and hurricane Emily on an insular tropical forest

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Management regime, soil and vegetation degradation and social perceptions on degradation and restoration at a tropical dry forest of the Pacific Coast of Mexico

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iACG: A Site-Based, Decentralized Approach to Promoting the Quantity, Quality, and Relevance of Research in a Conserved Tropical Wildland

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Resilience of a socio-ecological system: adaptability of local institutions for managing biodiversity in a protected area in the northeastern Yucatan Peninsula

Garcia-Frapolli Eduardo; Ayala-Orozco Barbara; Bonilla-Moheno Martha; Espadas-Manriquez Celene; Ramos-Fernandez Gabriel

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Advancing Conservation Biology Education in the Tropics: the Network of Conservation Educators and Practitioners

Ana Luz Porzecanski; Nora Bynum; Eleanor J. Sterling; Rodrigo A. Medellín; Osiris Gaona Pineda

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Socio-environmental characterization of the vegetative regeneration management of *Quercus castanea* Née for fuelwood

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History and use of the tropical dry forest of the ejido of huautla, Morelos, Mexico.

Vallejo Ramos Mariana; Canales de la Fuente Emma; Ordonez Diaz Maria de Jesus; Pinilla Carolina; Lopez Miguel Celia; Alvarez Torres Enrique

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Science Outreach for Students: Initiatives to connect local schools to ecology

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An ecosystem service approach to coffee production in a landscape

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Macroinvertebrate communities as soil health indicators in livestock production systems derived from low deciduous tropical forest

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