



São Paulo School of Advanced Science  
Sustainable and Inclusive Amazon  
Hotel Fonte Colina Verde, São Pedro/SP

**Program 21/11 to 05/12/2022**

**November 23 to 26**

**Module 1**

**The Amazon territory and its  
sustainability**

**November 28 to 30**

**Module 2**

**Amazonians as protagonists of  
biodiversity conservation and  
climate change mitigation\**

**December 01 to 04**

**Module 3**

**The Amazon and its inhabitants  
in harmony with its environment  
and the Sustainable Development  
Goals (SDG)**

## DETAILED PROGRAM

### Day 01 – Monday 21<sup>st</sup> November 2022

**8:30 to 12:30h** Student registration and distribution of material

#### 12 to 13:45h – Lunch

**16 h** Students' presentations (each student has up to 1 minute to introduce themselves)

#### Integration Activities

**19 h** Networking social event to promote interaction among participants

#### 20h - Dinner

### Day 2 – Tuesday 22<sup>nd</sup> November 2022

**8 to 12h** Welcome and opening remarks (Marcos Regis, Carlos A. Joly)

Presentation on the Inter-American Institute for Global Change Research/IAI (**Marcos Regis da Silva**)

The vision of making interdisciplinary and transdisciplinary research in the Amazon region, valuing traditional indigenous knowledge (**Anita Hardon - Chair NWO Domain Social Sciences and Humanities**)

Presentation on the Advanced School, its goals and expectations, professors, course schedule, and logistical arrangements (**Carlos A. Joly**)

Plenary discussion on students' queries and expectations

Students' presentations (each student has up to 1 minute to introduce themselves)

#### 12:30 to 13:45h – Lunch

**14h Opening Lecture** - The Amazon near a point of no return. The urgent need for a new bioeconomy of standing forest. **Carlos A. Nobre/IEA USP**

**16:00 – Posters session (45)**

**Module 1 The Amazon territory and its sustainability**

**Day 03 – Wednesday 23<sup>rd</sup> of November 2022**

**8:30 to 12:30h**

Characterization of the geological evolution of the Amazonian ecosystems – **Paulo Eduardo de Oliveira. University of São Paulo/USP**

The Amazonian hydroclimatic system, water recycling and climate regulation in the Amazon – **Marcos H. Costa/Univ. Federal Viçosa-UFV**

**12:30 to 13:45h – Lunch**

**14:00 – 17:30h**

The carbon cycle in Amazonia - **Luiz Eduardo O. C. Aragão. National Institute for Space Research/INPE**

Comparisons between carbon storage capacity between the Amazon and other Neotropical Forests - **Simone A. Vieira. University of Campinas/UNICAMP**

Impacts of global climate change in Amazonia - **Paulo Artaxo. University of São Paulo/USP**

**18:00 – Posters session (45)**

**Day 04 – Thursday 24<sup>th</sup> of November 2022**

**8:30 to 12:30h**

Evolution of Amazonian biota - **Alexandre Aleixo. Finnish Museum of Natural History**

Amazonian fishes and their environments: Adaptations and impacts of climate change - **Adalberto Val. National Institute for Amazonian Research/INPA**

Evolution of the Amazonian flora and the effects of human domestication - **Mônica Moraes R. Herbario Nacional de Bolivia - UMSA**

**12:30 to 13:45h – Lunch**

**14:00 – 17:30h**

The ancestral indigenous people of the Amazon, their languages and interconnexions between cultural and biological diversities – **Eduardo G. Neves. University of São Paulo**

Impact of the European colonization on the ancestral indigenous people of the Amazon – **Nicolás Cuvi. Facultad Latinoamericana de Ciencias Sociales/FLACSO Ecuador**

**Day 05 – Friday 25<sup>th</sup> of November 2022**

**8:30 to 12:30h**

Characterization of the main drivers of climate change and loss of biodiversity and socio-diversity - **Philip Fearnside. National Institute for Amazonian Research/INPA**

The conservation policies of protected areas and indigenous territories, from past to present - **Thiago Mota Cardoso / UFAM**

**12:30 to 13:45h – Lunch**

**14:00 to 17:30h**

Impacts of deforestation on infectious diseases and public health in the Amazon  
**Marcus V. G. Lacerda / FIOCRUZ Manaus**

Presentation of the main public research institutions on biodiversity and climate change in the Brazilian Amazon. Discussion of issues related to the fixation of researchers in the region. **Adalberto Val/INPA, Marlucia Bonifácio Martins/MPEG, Helder Lima de Queiroz/Mamirauá, Marcus VG Lacerda/FIOCRUZ Manaus, Philip Fearnside/INPA, Alexandre Aleixo**

**18:00 to 19:00h – Integration activities**

**Day 06 – Saturday 26<sup>th</sup> of November 2022**

**8:30 to 12:30h**

Discussion among all participants on alternatives to mitigate climate change and the loss of biodiversity and socio-diversity with the participation of all speakers from the 1st Module **Paulo E Oliveira/USP, Marcos H. Costa/UFV, Luiz Eduardo O. C. Aragão/INPE, Simone A. Vieira/UNICAMP, Paulo Artaxo/USP, Alexandre Aleixo/Finnish Museum of Natural History, Adalberto Val/INPA, Mónica Moraes R. / Herbario Nacional de Bolivia - UMSA , Eduardo G. Neves/USP, Nicolás Cuvil/FLACSO Ecuador, Philip Fearnside/ INPA, Thiago Mota Cardoso/ UFAM & Marcus V. G. Lacerda/ FIOCRUZ Manaus**

**11:30 to 12:30h – Integration activities**

**12:30 to 13:45h – Lunch**

**14:00 to 17:30h**

Amazon + 10 Initiative - **Luiz Eugênio Mello Scientific Director, FAPESP (to be confirmed)**

**Establishment of Working Groups and definition of themes (12 groups of 7 to 8 people - 4 themes per module)**

Day 07 – Sunday 27<sup>th</sup> of November 2022

**RESTING DAY**

**Module 2 - Amazonians as protagonists of biodiversity conservation and climate change mitigation**

Day 08 – Monday 28<sup>th</sup> of November 2022

**8:30 to 12:30h**

Research initiatives in prospection and biotechnological potential of the Amazonian biota - **Lauro Barata, Federal University of Western Pará/UFOPA**

The productive chains of sociobiodiversity and the aggregation of value to Amazonian sociobiodiversity - **Gustavo FV Silveira, Operation Native Amazon/OPAN**

**12:30 to 13:45 – Lunch**

**14 to 17:30**

The protection of forests by indigenous peoples. Motivations and challenges. The contribution of indigenous peoples and traditional populations (riverine peoples, quilombolas...) to the management of animals, plants and landscape - **Simone Athayde Program of Excellence in Brazilian Studies, Florida International University.**

The maintenance of ecosystem services by Amazonian populations (indigenous, riverine, quilombolas...) **Helder L. Queiros/Mamirauá.**

**17:30 h – Working Groups meeting**

## Day 09 – Tuesday 29<sup>th</sup> of November 2022

### Visit to Natura

Founded in 1969, Natura & Co is a Brazilian multinational company of cosmetics, hygiene and beauty products, based mainly in principles and molecules extracted from the Amazon Forest.

## Day 10 - Wednesday 30<sup>th</sup> of November 2022

### 8:30 to 12:30h

The contributions and role of the 3<sup>rd</sup> sector for conservation and sustainable use of biodiversity and climate change mitigation in the region. **Paulo Moutinho. Amazon Environmental Research Institute/IPAM**

Databases on Amazonia: Which ones exist? What kind of data do they describe (environment, populations, natural resources, etc.)? What region do they cover? Where are they located? How to access them (both from an institutional and technological point of view). **Carlos M. de Souza Junior. Amazon Institute of Man and the Environment / IMAZON**

The perspectives of data science and artificial intelligence in socio-environmental research. **Thiago Santos Gouvea / Artificial Intelligence Research Center Germany / DFKI**

### 12:30 to 13:45 – Lunch

### 14h to 17:30h

Initiatives to synthesize existing knowledge in order to advance governance issues for sustainability. **Andrea C. Encalada Romero. University San Francisco de Quito**

**Discussion among all participants about Amazonians as protagonists of Biodiversity Conservation and Climate Change Mitigation** with the participation of all speakers of the 3<sup>rd</sup> phase Lauro Barata/UFOPA, Gustavo FV Silveira/OPAN, Simone Athayde Program of Excellence in Brazilian Studies, Florida International University, Helder L. Queiros Q. Lima/Mamirauá, Paulo Moutinho/IPAM, Carlos Souza Jr/IMAZON, & Thiago Santos Gouvea/Artificial Intelligence Research Center Germany/DFKI Andrea Carolina Encalada Romero/Universidad San Francisco de Quito

### 17:30 h – Working Groups meeting

**Module 3 - The Amazon and its inhabitants in harmony with its environment and the Sustainable Development Goals (SDG)**

**Day 11 – Thursday 01<sup>st</sup> of December 2022**

**8:30 to 12:30h**

Conservation measures to deal with the main threats to Amazonian biodiversity, ecosystem services, especially carbon stocks. **Ane A. C. Alencar. Amazon Environmental Research Institute/IPAM**

Restoration models and options for Amazon forests. **Ricardo Ribeiro Rodrigues. Luiz de Queiroz College of Agriculture/ESALQ-USP**

**12:30 to 13:45 – Lunch**

**14 to 17:30h**

Organizational processes and social technologies driving sustainable development, including cultural development and tourism in the Amazon. **Nelissa Peralta. Institute of Philosophy and Human Sciences/UFGA**

Connecting and sharing diverse knowledge systems to support sustainable pathways in the Amazon. **Francisca Arara - Regional Committee for Partnerships with Indigenous Peoples and Other Traditional Populations**

**17:30 h – Working Groups meeting**

**Day 12 – Friday 02<sup>nd</sup> of December 2022**

**8:30 to 12:30h**

Contemporary urbanization in the Amazon. **Estevan Bartoli Amazonas State University, Parintins campus**

**CLOSING LECTURE – The Amazonia and the Sustainable Development Goals. Fábio Feldmann, Fábio Feldman Consultants (to be confirmed)**

**12:30 to 13:45 – Lunch**

**14 to 16:30h**

**Working Groups**

**16:30 – Report of the Working Groups**

**Day 13 – Saturday 03<sup>rd</sup> of December 2022**

**8:30 to 12:30h**

**Working Groups**

**12:30 to 13:45h – Lunch**

**14 to 18:30h**

**Working Groups**

**Day 14 – Sunday 04<sup>th</sup> of December 2022**

**8:30 to 12:30h**

**Working groups presentations and discussion**

**12:30 to 13:45h – Lunch**

**14 to 16:30h**

**Working groups presentations and discussion**

**16:30 to 18:00h**

**Participants answer the SPSAS Sustainable Inclusive Amazon evaluation questionnaire**

**18:00h**

Closing of the SPSAS Sustainable and Inclusive Amazon

**Day 15 – Monday 05<sup>th</sup> of December 2022**

**DEPARTURE OF PARTICIPANTS**