



SÃO PAULO SCHOOL OF ADVANCED SCIENCE ON TRANSDISCIPLINARITY FOR TRANSFORMATIVE CHANGE

PROGRAM

The SPSAS program consists of a chain of four modules regarding (i) the context of global environmental change and key concepts needed to understand this *problématique*; (ii) methodological and analytical approaches based on Transdisciplinarity in social-environmental sciences; (iii) Transdisciplinary efforts fostering Transformative Change in science-policy arenas; and (iv) the challenges for Transformative Change. This program was developed considering the eighth (8) Competencies for sustainability training: systems-thinking, future-thinking, value-thinking, strategies-thinking, interpersonal, intrapersonal, implementation, and integration competences (Box 1). Moreover, considering that Transdisciplinarity is problem-driven, solution-oriented, inclusive and innovative; shall engage target audiences and is an intentional, self-reflexive and co-construction process; there are several slots in the program focusing on practices, including field trips to traditional communities.

Box 1: SPSAS Modules and competencies for sustainability training

1) Setting the context: Global Environmental Change and key concepts (skills: <i>systems-thinking, value-thinking</i>)
2) Transdisciplinary Approaches (skill: <i>strategies-thinking, future-thinking</i>)
3) Transformative change through Science-Policy Interface (skill: <i>implementation</i>)
4) Challenges for Transformative change (skill: <i>integration</i>)
Field Trips
Practices: Breakout group activities & Students presentations (skills: <i>interpersonal, intrapersonal</i>) (critical thinking & creativity)

The program is a combination of (i) classes by national and international renowned scholars, (ii) panels involving policy-makers, local practitioners and indigenous leaderships; (iii) hands-on supervised activities by the students in breakout groups to co-design a transdisciplinary research proposal for transformative change, (iv) field trips to research institutions and local traditional communities (indigenous, *caçara, quilombola, caipira*), (v) art-activity to co-design dialogues and scenarios; (vi) students research presentations using innovative ways to communicate science, (vii) cultural and networking events.

The schedule of classes for each day of the SPSAS is detailed below, with the colors in the schedule indicating the respective module to which each class refers (Box 1). Gray colors indicate other course activities such as breakout groups (dark gray), panels, and students' presentations. The names of the scholars responsible for each class are indicated in bold in the schedule below.



Day 01 (Monday) - April 8th

08h00 – 08h30	Student registration and distribution of material
08h30 – 9h30	<ul style="list-style-type: none"> - Opening Ceremony - Presentation on the Advanced School, its goals and expectations, professors and course schedule (Cristiana Seixas & Cristina Adams) - Students' presentations I - Welcome from the São Luiz do Paraitinga Major - Ana Lúcia Bilard Sicherle - Welcome from the FAPESP - Carlos Frederico de Oliveira Graeff - Housekeeping issues & Social media
9h30 - 10h15	<ul style="list-style-type: none"> - Presentation on FAPESP funding opportunities, its international cooperation agreements and other opportunities for young researchers. Carlos Frederico de Oliveira Graeff, Coordinator of Strategic Programs
10h15 – 10h30	<ul style="list-style-type: none"> - Plenary discussion on students' queries and expectations
10h30 – 11h00	<i>Coffee break</i>
11h00 – 12h30	<ul style="list-style-type: none"> - CLASS I/1: Climate change and Biodiversity loss: challenges of Complexity (Jean Pierre Ometto)
12h30 – 14h00	<i>Lunch</i>
14h00 – 15h00	<ul style="list-style-type: none"> - Students' presentations II (group dynamics)
15h00 – 16h00	<ul style="list-style-type: none"> - Presentation on IAI & Funding for Transdisciplinary research (Laila Sandroni)
16h00 – 16h30	<i>Coffee break</i>
16h30 – 18h00	<ul style="list-style-type: none"> - <i>Breakout groups</i>: pedagogical activity
19h00 - 21h00	<i>Dinner</i>



Day 02 – Tuesday - April 9th

08h30 – 10h00	- <i>Breakout groups: pedagogical activity</i>
10h00 – 10h30	<i>Coffee break</i>
10h30 - 12h00	- CLASS I/2: Plurality of Values & Knowledge systems (Christopher Anderson)
12h30 – 14h00	<i>Lunch</i>
14h00 – 16h00	- CLASS I/3: Social-ecological systems & complex adaptive systems (Fikret Berkes - online)
16h00 – 16h30	<i>Coffee break</i>
16h30 – 18h00	- <i>Breakout groups: pedagogical activity</i>
18h30 - 19h00	- Cultural activity: Orquestra de Violas Rio Abaixo - Mestre Jorge Charleaux
19h00 - 21h00	<i>Dinner</i>

Day 03 – Wednesday - April 10th

08h30 – 10h00	- CLASS II/1: Participatory action research (PAR) & Community-based monitoring (Patrick McConney)
10h00 – 10h30	<i>Coffee break</i>
10h30 – 12h00	- CLASS I/4: Transformative Change (Sandra Waddock - online)
12h00 – 13h30	<i>Lunch</i>
13h30 – 16h00	- Field visits (Juliana Farinaci & Maria Cristina Freire) Agroforestry: Restoration of degraded pasture Organic dairy farming Biodynamic urban garden
16h00 – 16h30	<i>Coffee break</i>
16h30 – 18h00	- Transdisciplinary research led by non-academic organizations (Juliana Farinaci) - Groups wrap up and plenary discussion
19h00 - 21h00	<i>Dinner</i>



Day 04 – Thursday - April 11th

08h30 – 10h00	- CLASS II/2: Ecosystem stewardship (Terry Chapin)
10h00 – 10h30	<i>Coffee break</i>
10h30 – 12h00	- CLASS II/3: Adaptive governance (Micaela Trimble)
12h30 – 14h00	<i>Lunch</i>
14h00 – 14h30	- Considerations to communicate sciences to other audiences (Érica Speglich)
14h30 – 16h00	- <i>Breakout groups</i> : pedagogical activity
16h00 – 16h30	<i>Coffee break</i>
16h30 – 18h00	- Around the world in 90 minutes - Students presentation
18h00 - 18h30	- Potluck
18h30 - 19h00	- Cultural activity (local traditions) - Capoeira - Group Besouro Mangangá
19h00 - 21h00	<i>Dinner</i>

Day 05 – Friday - April 12th

8h00 – 12h00	- <i>Breakout groups</i> : pedagogical activity
12h00 – 13h30	<i>Lunch</i>
13h30 – 18h00	- Guided visit to the National Institute of Space Research (INPE) (Jean-Pierre Ometto)
18h30 - 19h00	- Cultural Activity: Brazilian classical singing
19h00 - 21h00	<i>Dinner</i>

Day 06 – Saturday - April 13th

8h00 – 13h00	- Field Trip: the Serra do Mar State Park (Núcleo Santa Virgínia)
13h30 – 15h00	<i>Lunch</i>



15h00 – 18h00	- City tour to São Luiz do Paraitinga & cultural activity (Maracatu - Baque do Vale)
19h00 - 21h00	<i>Dinner</i>

Day 07 – Sunday - April 14th

08h30 – 10h00	- CLASS III/1: Science-Policy Interface at the international level (Carlos Joly)
10h00 – 10h30	<i>Coffee break</i>
10h30 – 12h00	- CLASS III/2: Science-Policy Interface at national and state level (Cristina Azevedo)
12h00 – 14h00	<i>Lunch</i>
14h00 – 16h00	- Panel: The Conexão Mata Atlântica Program (restoration and conservation efforts) Local implementation agents (João Paulo Villani, Daniela Coura, Dagoberto Meneghini); moderator: Carlos Joly
16h00 – 16h30	<i>Coffee break</i>
16h30 – 17h30	- <i>Breakout groups: pedagogical activity</i>
18h00 - 19h30	- Cultural Activity - Movie “O Território” (at the Public Library) 1st Session: 18h00 - 19h30 //// 2nd Session: 19h30 - 21h00
19h30 - 21h00	<i>Dinner</i>

Day 08 – Monday- April 15th

7h45 – 12h00	- Guided visit to the USP Oceanographic Institute base in Ubatuba & Transdisciplinary research on coastal zone (Alexander Turra)
12h00 – 14h00	<i>Lunch</i>
14h00 – 19h00	- Field Trip to traditional/indigenous communities - breakout groups Quilombo da Fazenda - (Eliana Rodrigues - Ethnoecology) Praia da Almada - Caiçaras Aldeia Rio Bonito - Guarani
19h30 - 21h00	<i>Dinner</i>





Day 9 – Tuesday - April 16th

08h30 – 10h00	- CLASS III/3: Indigenous Local Knowledge for policy-making: the IPBES experience (Eduardo Brondizio)
10h00 – 10h30	<i>Coffee break</i>
10h30 – 12h00	- CLASS III/4: Strengthening Health and Wellbeing through Indigenous-Led Conservation and Sustainable Relationships with Biodiversity: The Arramat Project (Brenda Parlee)
12h00 – 14h00	<i>Lunch</i>
14h00 – 16h00	- Panel: Multiple knowledge and values systems fostering decolonization for transformative change (Cristine Takuá, Neidinha Bandeira, Robson Possidônio . Moderator: Fabio Scarano)
16h00 – 16h30	<i>Coffee break</i>
16h30 – 18h30	- Workshop: The What, How and Why of Decolonial Futures (Laura Pereira)
19h00 - 20h30	<i>Dinner</i>
20:30 - 21h30	- Cultural Activity - The Territory movie debrief with Neidinha Bandeira (leading role) (at the Public Library)

Day 10 – Wednesday - April 17th

8h30 – 10h00	- CLASS IV/1: Transformative change for social-ecological regeneration (Fabio Scarano)
10h00 – 10h30	<i>Coffee break</i>
10h30 – 12h00	- <i>Breakout groups</i> : pedagogical activity
12h00 – 13h30	- CLASS IV/2: Challenges for transformative change and the Three Spheres of Transformation framework (Karen O'Brien - online)
13h30 – 15h00	<i>Lunch</i>
15h00 – 17h00	- Breakout groups' presentations
17h00 – 17h30	<i>Coffee break</i>
17h30 – 18h30	- Breakout groups' presentations - Groups wrap up and plenary discussion



8h30 – 10h00	- CLASS IV/1: Transformative change for social-ecological regeneration (Fabio Scarano)
10h00 – 10h30	<i>Coffee break</i>
10h30 – 12h00	- <i>Breakout groups: pedagogical activity</i>
12h00 – 13h30	- CLASS IV/2: Challenges for transformative change and the Three Spheres of Transformation framework (Karen O'Brien - online)
19h00 - 22h30	- <i>Coquetel and Cultural Activity - Carnaval - Camilo Frade trio</i>

Day 11 – Thursday - April 18th

08h30 – 10h00	- Closing session: Lessons learnt & future perspectives
9h00 - 9h30	- David Obura - IPBES Chair - online
10h00 – 10h30	<i>Coffee break</i>
10h30 – 12h00	- SPSAS evaluation
12h00 – 15h00	<i>Lunch and departures</i>