



18 November 2016

## Professional Development Seminar: Transdisciplinary Approaches to Integrating Policy and Science for Sustainability

Puerto Plata, Dominican Republic, 28 November – 2 December 2016 and Calgary, Canada, 29 May -2 June 2017

### Tentative Program

#### Part 1 - Dominican Republic

Time	Activity	Learning outcomes	Speaker/Facilitator
<b>Day 1 – Monday – November 28<sup>th</sup>, 2016</b>			
08:30	Welcome and Opening of the seminar. Introductions and seminar goal	Seminar goals and participant expectations	Marcella Ohira/ Kathy Halvorsen / host country representatives
09:00	The Inter-American Institute for Global Change Research (IAI)	Participants will get familiar with the IAI, its mission and work in the Americas	Marcella Ohira/ Edwin Castellanos/ Ana Murgida
09:30	Introduction to <b>interdisciplinary research</b> . Why interdisciplinary research? Emphasis on <b>process</b> and working together: a) individual, b) project, c) team	Participants will be able to define interdisciplinary research, understand the need and complexities of this type of research, focusing on the process.	Kathy Halvorsen
10:15	Coffee break		
10:30	Theory of <b>interdisciplinary</b> research and methodological approaches  Hands-on exercise: Science Cafe – IAI Collaborative Research Networks (CRN) project model	What is challenging about interdisciplinary research and how does one do it well?  Participants will 1. Gain an understanding of the views, norms and priorities of different disciplines. 2. Foster deep thinking about core concepts such as interdisciplinarity, sustainability and “good science.” 3. Initiate meaningful dialogue across disciplines and sectors.	Kathy Halvorsen/ Jessie Knowlton

12:15	<p>Panel <b>Interdisciplinary</b> project examples (interdisciplinary work or collaboration)</p> <ol style="list-style-type: none"> <li>1.Valentin Picasso, USA/Uruguay</li> <li>2.Alejandro Velasco, Colombia</li> <li>3.Caitlin Quarrington, Canada</li> <li>4.Natalia Zaldua, Uruguay</li> </ol> <p>Questions and discussion</p>	<p>Speakers and participants will share their experience in interdisciplinary work (lessons learned, challenges and opportunities)</p>	Jessie Knowlton
13:15	<p>Lunch</p> <p>Dominican Republic (the country, people, environment and global change challenges and opportunities)</p>	<p>Learning about the host country and its global change challenges and priorities.</p>	Carol Franco
14:15	<p>Speed meeting/getting to know one another</p>	<p>Networking opportunity.</p> <p>Start identifying possible team members for the project proposals</p>	Marcella Ohira
15:00	<p>Working groups (WG)</p> <p>Presentation of WG and Discussion</p>	<p>Participants will reflect and discuss:</p> <ol style="list-style-type: none"> <li>1.What do I need to present from my own discipline to make others understand where I come from?</li> <li>2.How much do I need to understand from other disciplines to participate in an interdisciplinary team?</li> </ol> <p>Non-academics about their participation/contribution to WG: How can policy,decision makers contribute to the discussion of interdisciplinary research.</p>	Edwin Castellanos
16:00	<p>Coffee break</p>		
16:15	<p>Introduction to <b>transdisciplinary research</b>. Why transdisciplinary research?</p> <p>Emphasis on <b>process</b> and working together:</p> <ol style="list-style-type: none"> <li>a) individual,</li> <li>b) project,</li> <li>c) team</li> </ol>	<p>Participants will be able to define transdisciplinary research, understand the need and complexities of this type of research, focusing on the process.</p>	Valentin Picasso
17:00	<p>Panel <b>Science-Policy</b> project examples from various countries</p> <ol style="list-style-type: none"> <li>1.Edwin Castellanos/Gabriela Alfaro, Guatemala</li> <li>2.Kerstin Forsberg, Peru</li> <li>3.Maria Virginia Vilarino, Argentina</li> <li>4.Alexander Rincon, Colombia</li> </ol> <p>Questions and discussion</p>	<p>Speakers and participants will share their experience in science-policy interactions (lessons learned, challenges and opportunities)</p>	Valentin Picasso
	<p>PPM activities</p>		
18:00	<p>Happy hour</p> <p>Posters and Participants presentations</p> <p>Getting to know one another</p>	<p>Networking opportunity.</p> <p>Start identifying possible team members for the project proposals</p>	All participants

PPM	Dinner/ PPM Sectorial groups (1 group NGOs, 2 groups Academia, 2 groups Government, 1 group Business). Each group to prepare 1-2 slides to report back next morning		All participants  Kathy Halvorsen
<b>Day 2 – Tuesday - November 29<sup>th</sup>, 2016</b>			
8:30	Summary of day 1 (most interesting aspects of day 1, what was learned and a reflection question – 5 minutes presentation (1-2 slides) followed by 10 minutes short discussion	Participants will review main topics and conclusions of the previous day and have a brief discussion	Participants (group of 3-4 set up previous morning)  Gabriela Alonso/ Iris Suazo
8:45	Theory of <b>transdisciplinary</b> research and methodological approaches  Exercise on diverse methods	Participants will be able to explain how different sectors (academia, government, other groups) work, their goals, and their perspectives in transdisciplinary projects.	Valentin Picasso/ Kathy Halvorsen
10:00	Coffee break		
10:15	Sectorial group reports (5' each) and discussion	Participants will think about and discuss What are the challenges with transdisciplinary research and are they different for people in different sectors?	Groups  Kathy Halvorsen
11:15	Panel <b>Science-Policy</b> examples from the <b>Dominican Republic</b> : 1. Francisco Núñez (Director de The Nature Conservancy para las Antillas Mayores) 2. Ramón Díaz (Encargado de la Unidad de Monitoreo Forestal, Ministerio de Medio Ambiente) 3. Rafael Berigüete (Universidad Nacional Pedro Henríquez Ureña - UNPHU). 4. Carlos Rodríguez (Director de Investigación Científica del Ministerio de Educación Superior, Ciencia y Tecnología) Questions and discussion	Host country experts from various sectors will share their experience in Science-Policy interactions (lessons learned, challenges and opportunities)	Carol Franco
12:30	Lunch		
13:30	Panel <b>Transdisciplinary</b> project examples (different sectors, themes, small and large projects) 1. Kathy Halvorsen/Tatiana Souza: bioenergy and water, USA/Brazil 2. Naomi Krogman: food security, Canada 3. Anne Teresa Birthwright, Jamaica 4. Maira Padgurschi, Brazil 5. Gabriela Alonso: Transdisciplinary processes, Canada Questions and discussion	Speakers and participants will share their experience in transdisciplinary work (lessons learned, challenges and opportunities)	Gary Machlis

15:15	Coffee break		
15:30	IAI case study of Inter and Transdisciplinary Programs: Collaborative Research Networks and Training Seed Grants	Outcomes and lessons learned from two IAI science and capacity building programs fostering Interdisciplinary and Transdisciplinary research.	Jeremy Pittman/Ana Murgida/Marcella Ohira
16:30	<b>Proposal Development</b> Introduction		Jessie Knowlton/Kathy Halvorsen/Valentin Picasso
	PPM activities		
18:00	Happy hour  Introduction to the <b>Field Trip</b> (background)  Sustainable Agriculture framework: the field trip and relevant questions	Participants will learn about the field trip sites that will be visited, professionals and communities the seminar group will be talking with, and observe the environmental, socioeconomic situation and governance structures.	Juan Mancebo/Carol Franco  Valentin Picasso
PPM	Dinner Participants will begin to form teams.  Potential teams meet to discuss project proposals or work on questions/tasks for the field trip		All participants
<b>Day 3 – Wednesday – November 30<sup>th</sup>, 2016</b>			
7:30	<b>Field Trip</b>  Departure from the hotel		
10:00	Visit to Farm Indulal en Las Caobas. Demonstration of the farm, milk production, use and local processing of milk, improved farm with pasture, ecological farm		
11:40	Mao, Valverde, banana organic farming. Demonstration of areas with automated meteorological stations, generation of warnings against Black Sigatoka and decreased use of pesticides		Santiago Rodríguez Juan Mancebo Carol Franco
13:00	Lunch		
15:15	Altamira, Puerto Plata Presentation of organic cocoa plantation		
17:15	Playa Dorada Visit to the coastal zone with the presence of fishing and tourist activities		
18:10	Return to the hotel		
	PPM activities		

19:00	<p><i>Happy hour</i>  Summary of day 2 (most interesting aspects of day 2, what was learned and a reflection question – 5 minutes presentation (1-2 slides) followed by 10 minutes short discussion</p>	<p><i>Participants will review main topics and conclusions of the previous day and have a brief discussion</i></p>	<p><i>Participants (group of 3-4 set up previous morning)</i></p> <p><i>Marga Gual/ Jessica Duchicela</i></p>
19:15	<p><i>Observation of Field Trip and Reflection</i></p> <p><b>Panel on Sustainable Agriculture</b>  1.Valentin Picasso/Pablo Modernal, Uruguay  2.Edith Aguila, Cuba  3.Gabriel Lui, Brazil  Questions and discussion</p>	<p><i>Participants will be able to reflect the observations of the field trip and link them to what was discussed the previous days.</i></p> <p><i>Speakers and participants will share their experience in sustainable agriculture work and compare them with the case of the host country.</i></p>	<p><i>Carol Franco/ Valentin Picasso</i></p>
	<p><i>Dinner</i>  Teams meet to work on their project proposal</p>		<p><i>All participants</i></p>
<b>Day 4 – Thursday – December 1<sup>st</sup>, 2016</b>			
08:30	<p><i>Summary of day 3 (most interesting aspects of day 3, what was learned and a reflection question – 5 minutes presentation (1-2 slides) followed by 10 minutes short discussion</i></p>	<p><i>Participants will review main topics and conclusions of the previous day and have a brief discussion</i></p>	<p><i>Participants (group of 3-4 set up previous morning)</i></p> <p><i>Gabriela Alonso/ Erica Carrizo</i></p>
08:45	<p><b>Panel on Proposal Development</b> and collaborative research proposals  1.Edwin Castellanos, Guatemala  2.Jessie Knowlton, USA  3.Gary Machlis, USA  Questions and discussion</p> <p><i>Hands on exercise (30-40 minutes)</i>  A key element of a successful research proposal is a clear, concise research question. With it, evaluators and funders can easily understand the objective of the research, its interdisciplinary potential and</p>	<p><i>Participants will be able to strengthen their proposal development skills and work on a collaborative research proposal, and reflect on the process.</i></p> <p><i>Presentation of case examples of interdisciplinary and transdisciplinary research questions. Writing clear and concise research questions is not easy, but it is an achievable skill.</i></p> <p><i>In a hands-on exercise, participants will gain experience in crafting effective research questions. Participants would break up into the proposal groups. Each group would have 15 minutes to develop a single, clear, and concise research question.</i></p> <p><i>Each team would put their research question on a large sheet of paper and display it in the seminar room. The participants would then move from one question to the next, offering critique and encouragement.</i></p>	<p><i>Valentin Picasso/ Kathy Halvorsen</i></p> <p><i>Naomi Krogman/ Gary Machlis</i></p>

	<i>possible implications. Without it, a proposal may be difficult to understand, lose its focus, and be poorly received and reviewed. Hence the research question is an essential part of any successful research proposal.</i>	<i>Chair would end the exercise with a brief description of how best to integrate the research question into other elements of proposal development.</i>	
10:15	<b>Successful research and outcomes.</b> <i>What makes research successful? What are the outcomes of a research project that make it successful? Can transdisciplinary projects be successful? Successful research and outcomes</i>	<i>Participants will be able to provide indicators for successful research projects, and think critically about previous research experiences.</i> <i>What makes research successful? What are the outcomes of a research project that make it successful for different people? Papers? Presentations? Policy? Landscape change? Business opportunities? Reduction in poverty? Increased environmental health? How do we know?</i>	Valentin Picasso
10:45	<i>Coffee break</i>		
11:00	<i>Climate Change Conference of the Parties / Panel on <b>Climate Change negotiations.</b></i> <i>Dominican Republic: Carol Franco/Jenifer Colado</i> <i>Cuba: Alexander Fernandez</i> <i>Guatemala: Edwin Castellanos</i>  <i>Sub-topics climate policy, 1.5 degree adaptation discussion</i>	<i>Speakers and participants will share their experience in the UNFCCC Climate Change negotiations framework / (lessons learned, challenges and opportunities)</i>	Edwin Castellanos
11:30	<b>Science diplomacy</b>	<i>Participants will be able to: 1) Become familiar with the concept and history of science diplomacy, its main subfields (climate, energy, water, health, etc), current theoretical and practical frameworks, and relevance for Latin America' and 2) Explore how science diplomacy can be embedded in TD projects and participant's work</i>	Marga Gual
13:00	<i>Lunch</i>		
14:00	<i>Team Project proposal presentations- (plenary session for feedback from both mentors and other members of the group). 10 minutes each/ 3 slides</i>	<i>Participants will present their team work and get feedback from a review panel composed of seminar speakers and facilitators</i>	All teams  Review panel: facilitators
16:00	<i>Coffee break</i>		
16:15	<i>Teams work on their project proposals and incorporate feedback</i>	<i>First hour: mentors work with their respective groups</i>  <i>Second hour: Facilitators meet to discuss work of the groups (challenges, problems, advise, etc) .</i>	
	<i>PPM activities</i>		

18:00	Happy hour Teams work on their project proposals and incorporate feedback		
	Dinner Teams work on their project proposals and incorporate feedback		All participants
<b>Day 5 – Friday – December 2, 2016</b>			
8:30	Summary of day 4 (most interesting aspects of day 4, what was learned and a reflection question – 5 minutes presentation (1-2 slides) followed by 10 minutes short discussion	Participants will review main topics and conclusions of the previous day and have a brief discussion	Participants (group of 3-4 set up previous morning)  Marga Gual/Ivan del Callejo
8:45	<b>Sustainability for the Forgotten</b>	Participants will gain awareness of how sustainability policy and practice often ignores certain classes of persons, and potential actions that can improve the social justice of sustainability projects and programs.	Gary Machlis/ Naomi Krogman
9:45	<b>Assessment and Evaluation:</b> Identifying success criteria for Transdisciplinary collaborations. Introduction of assessment and criteria for feedback.	Participants will be able to describe and organize indicators of success in cross sector collaborations, including skills necessary to effectively work in diverse teams.	Gabriela Alonso
10:15	Coffee break		
10:30	<b>Evaluation</b> PDS first part in Puerto Plata	Gather information about participant's learning experiences in the Seminar.	Marcella Ohira/ Gabriela Alonso
11:00	<b>Intersession plan</b> (Dec. 2016 – May 2017) and participants and facilitators feedback <b>Introduction fo PDS second part in Calgary</b>	Participants will have an opportunity to make suggestions for the second part of the program in Canada.	Kathy Halvorsen/ Marcella Ohira/ Gabriela Alonso
11:45	Teams work on their project proposals  Mentors work with their groups		All participants  Facilitators
13:00	Teams work on their project proposals		
15:30	Team Project proposal presentations- (plenary session for feedback from both mentors and other members of the group). 10 minutes each/ 3 slides	Participants will present their team work and get feedback from a review panel composed of seminar speakers and facilitators	All participants  Review panel: all facilitators
17:30	Adjourn		
	Happy hour Farewell dinner		