













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

Calgary/Banff, Canada, 3-7 October 2017

Program (VERSION 30 Sept. 2017)

Time	Activity	Learning outcomes	Speaker/Facilitator	Location
Day 1 – Tuesd	ay – October 3 rd , 2017			
08:30 - 08:40	Welcome		Marcella Ohira (IAI) and Gabriela Alonso, University of Calgary, Werklund School of Education	University of Calgary Rozsa Center
08:40 - 09:00	Brief review of the Professional Development Seminar (PDS) part I in Puerto Plata		Kathy Halvorsen, Michigan Technological University and Valentin Picasso, University of Wisconsin All participants	
09:00 – 10:00	Canada, host country presentation Environmental Urban Lab Presentation: Linking policy to Sustainable Cities	Building capacity to COMMUNICATE SCIENCE to various audiences.	Francisco Alaniz Uribe, University of Calgary, Faculty of Environmental Design – Urban Lab	
10:00 – 10:15	Coffee Break	1		1
10:15 – 11:15	COMMUNICATE SCIENCE to non-technical audiences - Video conference	Building capacity to communicate science to various audiences.	Allison Mills, Michigan Technological University	

11:15 – 12:15	Act your Science - Science and improvisation Hands-on exercise – Part 1	Building capacity to COMMUNICATE SCIENCE to various audiences.	Jeff Dunn, University of Calgary, Department of Clinical Neuroscience, Department of Physiology and Pharmacology; Department of Radiology; and Experimental Imaging Centre PDS teams	
12:15 – 14:30	Welcome Lunch Teams will present their TD research proposals to a wider audience (University of Calgary faculty, local authorities and representatives from the civil society and PDS organizers) 15 minutes each team	Strengthening communication skills. Building capacity to COMMUNICATE SCIENCE ideas to various audiences.	Anita Eaglebear, Welcome Ceremony - Indigenous elder, Janaka Ruwanpura, vice-provost, International at the University of Calgary. Sharon Friesen, University of Calgary, Werklund School of Education Vice-Dean to welcome PDS participants	University of Calgary Rozsa Center
14:30 – 15:15	TD research proposals: Reviewers feedback		PDS Teams and mentors	
15:15 – 16:15	TEAMWORK & TD PROCESSES and discussion Doing great TD work, lessons learned (12 minutes each team, 5 slides) Each team should prepare an image/ drawing/poster to illustrate its teams' work. What is important about your team, how to illustrate the work done, obstacles faced and overcome. Also, a list of top 5 elements of how to do TD work	TEAMWORK & TD PROCESSES Lessons learned and experienced by each team in building their teams and working on a TD proposal.	Four PDS teams	

16:15 – 16:45	Coffee Break		
		TEAMWORK SKILLS	
16:45 – 18:00	TEAMWORK SKILLS	Strengthen ability to create and develop an effective research team	Kathy/Erin Pischke, Michigan Technological University
	Teams meet to work on their project proposal,		
	work plan and press release		Participants
Day 2 – Wedne	esday – October 4th, 2017		
			Gabriela Alonso, University of
08:30 - 09:00	ID and TD grand non-color coloration with air		Calgary
08.30 - 09.00	ID and TD research proposals evaluation criteria		Lily House-Peters, California State
			University, Long Beach
09:00 - 09:10	Reflections of Day 1 and brief discussion		Participants (team established
05.00 05.10			previous day)
	TRANSDISCIPLINARY (TD) METHODS: Social	Participants will learn about the range of social science methods	
	science methods and hands-on exercises	and specific skills in conducting	
09:10 - 10:10	Development of interview questions to scientific and NGO/industry/government/community goals, their interview topic will be related to Valentin's natural science methods exercise	qualitative interviews, including	Kathy/Erin
		how to develop interview	
		questions, interview people and	
		analyze data – volunteers and	
10.10.10.00		site confirmation	
10:10 -10:30	Coffee Break	T	
	Interviewing (about 1.5 hours: have groups of 2		
10:30 –12:00	interview people asking the questions they		W. 11. /c :
	designed, 10 min. of interviewing per		Kathy/Erin
	interviewee, then rotate to next interviewee,		
	may continue into lunch if necessary)		
12:00 –13:00	Lunch. Wrap up data analysis, prepare brief presentation of	on findings (30 min.: have participan	its look over their findings over lunch)

13:00 –13:30	TRANSDISCIPLINARY (TD) METHODS: Present interview findings (20-30 min.: present findings to entire group (2 min per pair to talk about findings)		Kathy/Erin	
13:30-14:30	Background on natural science methods		Valentin	
	TRANSDISCIPLINARY (TD) METHODS: Hands-on	Participants will be able to make		
	exercise: data collection on grasslands in a nearby	distinctions between the		
14:30 -15:30	field with Valentin (simple agronomic	"treatment" stocking rates of	Valentin	
	experiment, with replications, treatments,	grazing cattle or different levels		
	randomization, blocks)	of Nitrogen fertilizer, etc.		
15:30 –16:00	Coffee Break			
	TRANSDISCIPLINARY (TD) METHODS: Participants			
16.00 16.20	integrate interview and grasslands findings, prep.		Participants	
16:00 –16:30	one minute presentation scientific implications,			
	diverse organization implications			
	TRANSDISCIPLINARY (TD) METHODS: Participants			
16:30 – 17:30	present TD findings, one minute per pair,		Kathy/Erin/Valentin	
	discussion of challenges			
17.20 10.00	Teams meet with mentors to work on their		PDS Participants and mentors	
17:30 – 18:00	project proposal, work plan and press release			
	Meet and Greet: Interactions with University of			
18:00 – 19:00	Calgary faculty, graduate students, and Members			
	of Calgary Chamber of Commerce			
	Teams meet to work on their project proposal,			
	work plan and press release			
Day 3 – Thurse	day – October 5 th , 2017			
00.00.00.10	Reflections of Day 2 and brief discussion		Participants (team established	
09:00 – 09:10			previous day)	
	COUNTY DOLLOW		Dawn Bazely, Former Director of	
09:10 - 10:00	SCIENCE-POLICY		the Institute for Research and	University of Calgary
	How scientists work with stakeholders		Innovation in Sustainability,	Rozsa Center

		University Professor, York
		University
		Jeff Dunn, University of Calgary,
		Department of Clinical
	Act your Science - Science and improvisation	Neuroscience, Department of
10:00 - 10:45		Physiology and Pharmacology;
	Hands-on exercise - part 2	Department of Radiology; and
		Experimental Imaging Centre
		PDS teams
10:45 - 11:00	Coffee Break	
	Lucture describes to the Field Trip on October 6 th .	Gabriela Alonso, University of
	Introduction to the Field Trip on October 6 th :	Calgary
11:00 – 11:30	Canada's First Nations sacred sites	Naomi Krogman, University of
	Introduction to Douff and DIDC	Alberta
	Introduction to Banff and BIRS	Banff National Park
11:30 – 12:30	Teams meet to work on their project proposal,	
11.30 – 12.30	work plan and press release	
12:30 – 14:00	Lunch	
		Marga Gual Soler, American
	SCIENCE DIPLOMACY	Association for the Advancement of
		Science, USA
14:00 – 15:00		Caitlin Quarrington, Mindfuel
		Canada
		Jessica Duchicela, Universidad de
		las Fuerzas Armadas, Ecuador
	Panel: PROPOSAL DEVELOPMENT AND PROJECT	- Kathy: National Science
15:00 – 16:00	MANAGEMENT	Foundation (NSF) PIRE and
	-Project proposal development	IAI/Collaborative Research Network
	-Project funding, applying for grants	experiences
	-Project management	- Edwin Castellanos, University del

16:00 – 16:30	-Project reporting Coffee Break		Valle of Guatemala: managing and coordinating regional networks - Carol Franco, the Green Climate Fund - Lily House-Peters, University of California: IAI Seed Grants and TD processes	
16:30 – 17:30	FINANCING: Simulation game on the Green Climate Fund		Carol Franco, Marga Gual	
17:30 – 18:30	Teams meet to work on their project proposal and work plan			
18:30 – 19:00	Transportation to Calgary Public Library – John Dutton- common area			
19:00 – 21:00	Throwing away the Lab Coat: COMMUNICATING SCIENCE across borders – Canada's Panel Dialogue - Representative from the Indigenous Communities and Energy and Mining Sectors - Representative from Government/Legislative - Representative from Private Sector - Representative from Academia	University of Calgary's Latin American Research Center Director Pablo Policzer and the Werklund School of Education host Jay Ingram & expert guests to explore innovative ways to communicate science across sectors, borders, and cultures in order to face global challenges	Jay Ingram, Discovery Channel Canada & expert guests - Cheryl Cardinal, President and Chief Executive Officer, Indigenous Center of Energy - Karen McPherson, Legislative Assembly of Alberta, Calgary- Mackay-Nose Hill - Mel Wilson, MJ Wilson and Associates Inc., PwC Canada - Dawn Bazely, Former Director of the Institute for Research and Innovation in Sustainability, University Professor, York University	Calgary Public Library John Dutton common area

21:00 - 23:00	Group dinner in Calgary				
Day 4 – Friday – October 6 th , 2017-					
	Field Trip				
	Hosts:				
	Ramona Big Head – Blackfoot Nation, principal of				
	Kainai High School – PhD candidate University of				
	British Columbia				
	Dwayne Donald, Cree First Nation, University of				
	Alberta, Curriculum Studies and Indigenous				
07.00 40.00	Perspectives				
07:30 – 18:00					
	First site to visit: Sundial medicine wheel				
	http://wayback.archive-				
	<u>it.org/2217/20101208164612/http://www.abheri</u>				
	tage.ca/alberta/en/archaeology/facts_finds_sund				
	ial_hill_med_wheel.html				
	Second site to visit: Women Buffalo Jump				
	https://hermis.alberta.ca/ARHP/Details.aspx?Dep				
	tID=1&ObjectID=4665-0079				
	Arrival at Banff International Research Center				
40.00	(BIRS)				
18:00					
	Check in				
18:30	Dinner at BIRS				
	Teams meet to work on their project proposal,				
	work plan and press release			BIRS	

Day 5 – Saturday – October 7 th , 2017					
09:00 - 09:30	Making highways safe for people and wildlife	Lynda Holleman, Banff			
09.00 - 09.30	crossing	Parks Canada			
09:30 - 09:50	Reflections of Days 2 and 4 and brief discussion	Participants	BIRS		
09.30 - 09.30	Reflections of Days 3 and 4 and brief discussion	(teams established previous days)	DINS		
09:50 – 10:10	Reflection and discussion of the Field Trip	Gabriela Alonso and Dawn Bazely			
10:10 - 10:30	Coffee Break				
10:30 - 11:30	Indigenous Knowledge and Socioecological	Dwayne Donald and Ramona Big			
10.50 - 11.50	systems	Head			
11:30 – 13:00	Lunch				
	Teams present the final version of their project				
13:00 – 14:00	proposal and press release (12 minutes each)	PDS teams and reviewers			
	Final reviewers feedback				
	Integrating Research and Innovation into				
	Sustainability Science and Policy				
14:00 – 15:00		Dawn Bazely			
	Connecting the dots: Inter and Transdisciplinary				
	Research and Communicating Science to Society				
	Evaluation of PDS Canada				
15:00 – 16:00		Gabriela, Lily and Marcella			
	Adjourn				
16:00 – 16:30	Coffee Break				

Day 6 – Sunday – October 8th, 2017

Travel day

Departure to Calgary International Airport

A table with time schedule for departure from BIRS to Calgary International Airport for the Seminar group will be available