

Environment for Development Initiative

15th Annual Meeting

November 15-19, 2021,

at 14:00-17:00 CET/UTC+1

Virtual Meeting

Program

(Final)



Environment for Development

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1. General Program overview

Monday, November 15. Academic Program Day I

- 14:00 – 14:50 Welcome by EfD Director Gunnar Köhlin
- 14:50 – 15:00 Break
- 15:00 – 17:00 Parallel sessions 1
1. Session 1A: Agriculture
 2. Session 1B: Low-Carbon Transition in the Global South
 3. Session 1C: Pollution and development outcomes
 4. Collaborative Policy meeting: Natural Capital Collaborative (NatCap)
 5. Collaborative Policy meeting: Sustainable Management of Coastal Marine Resources (CMaR)
 6. Collaborative Policy meeting: Blue Resources for Development (BlueRforD)

Tuesday, November 16. Academic Program Day II

- 14:00 – 14:50 Keynote 1 by Yonas Alem: Weather Shocks and Livestock Production: Insights from Sub-Saharan African Panel Data Sets
- 14:50 – 15:00 Break
- 15:00 – 17:00 Parallel sessions 2
1. Session 2A: Conservation
 2. Session 2B: Electricity Consumption
 3. Session 2C: Health and Labor Supply
 4. Session 2D: Household Welfare and Decisions
 5. Collaborative Policy meeting: Women in Environmental Economics for Development (WinEED)
 6. Collaborative Policy meeting: Forest Collaborative

Wednesday, November 17. Academic Program Day III

- 14:00 – 14:50 Keynote 2 by Elizabeth Robinson: Food security in a climate insecure world
- 14:50 – 15:00 Break
- 15:00 – 17:00 Parallel sessions 3
1. Session 3A: Aquaculture & Fisheries
 2. Session 3B: Energy choices, Electricity and impacts
 3. Session 3C: Behavioral & experimental economics
 4. Session 3D: Renewable energy and mining windfall
 5. Collaborative Policy meeting: Emission Pricing for Development (EPFD)
 6. Collaborative Policy meeting: Agriculture and Food Systems

Thursday, November 18. Academic Program Day IV

- 14:00 – 14:50 Keynote 3 by Alexandre Antonelli: Protecting and restoring biodiversity for the benefit of people and nature
- 14:50 – 15:00 Break

- 15:00 – 17:00 Parallel sessions 4
1. Session 4A: Theoretical models and Public good
 2. Session 4B: Weather Shocks, Impacts, Adaptation & Mitigation
 3. Session 4C: Livelihoods, Gender and Illegal Activities
 4. Collaborative Policy meeting: Inclusive Green Transformations
 5. Collaborative Policy meeting: Sustainable Energy Transitions Initiative (SETI)

Friday, November 19. Inclusive Low-Carbon Transitions for Sustainable Development in the Global South: Development of an actionable research agenda

- 14:00 – 14:30 Introducing the Low-Carbon Transition initiative (Erin Tansey and Bhim Adhikari, IDRC, and Gunnar Köhlin, EfD)
- 14:30 – 15:20 Previews of the five parallel sessions:
- (i) Regional perspectives (Daniel Slunge)
 - (ii) Enabling policy environment (Jan Steckel)
 - (iii) Sectoral themes (Alejandro López-Feldman)
 - (iv) Mobilizing new climate investment models (Jonathan Phillips)
 - (v) Cross-cutting themes (Maria del Pilar and Edwin Muchapondwa)
- 15:20 – 15:30 Break
- 15:30 – 16:25 Parallel sessions
- (i) Regional perspectives
 - (ii) Enabling policy environment
 - (iii) Sectoral themes
 - (iv) Mobilizing new climate investment models
 - (v) Cross-cutting themes
- 16:25 – 16:30 Break
- 16:30 – 17:00 Quick feed-back from parallel sessions and next steps

2. Academic Program

Monday, November 15

Parallel Sessions 1A, 1B, 1C, 1D & Collaborative Policy meetings

15:00-17:00

Chair: Nkechi Srodah Owoo

Parallel sessions 1A:		
Agriculture		
Author	Title	Discussant
Loan Thanh Le (University of Economics in Ho Chi Minh City)	Impact of land fragmentation on the demand for laser land leveling service: a case study of paddy mono-cropping system in Vietnam	Leonard Le Roux
Leonard Le Roux (Sciences Po)	Agricultural investment with land tenure and weather risk: behavioural evidence from Tanzania	Nnaemeka Andegbe Chukwuone
Kaushik Bora (Indian Statistical Institute Bangalore)	A Plot Level Study of Effects of Rainfall Shocks on Chemical Fertilizer Application in Paddy in India	Monica Lambon-Quayefio
Nkechi Srodah Owoo (University of Ghana)	Exploring the Evidence for Inward Diffusion of Soil Conservation Practices among Farmers in Nigeria: A Spatiotemporal Analysis	George Marbuah

Chair: Jan Steckel

Parallel sessions 1B:		
Low-Carbon Transition in the Global South		
Author	Title	Discussant
Komal Sareen (Indian Institute of Technology)	Time for clean energy? Potential versus actual time savings from switching to a clean fuel	Stefan Ambec
Sebastian Renner (Mercator Research Institute on Global Commons and Climate Change)	Targeting vertical and horizontal impacts of carbon pricing in Indonesia	Daniele Malerba
Sinem Ayhan (Mercator Research Institute on Global Commons and Climate Change)	Distributional impacts of carbon pricing on sub-Saharan African households	Jörg Peters
Michael Toman (Resources for the Future)	Carbon Tax in an Economy with Informality: A Computable General Equilibrium Analysis for Côte d'Ivoire	Adan L. Martinez-Cruz

Parallel sessions 1C:		
Pollution and development outcomes		
Author	Title	Discussant
Kanishka Kacker (Indian Statistical Institute)	Does Traffic Congestion pose Health Hazards? Evidence from a Highly Congested and Polluted City	Olexiy Kyrychenko
Nathaly Rivera (University of Sao Paulo)	Long-Term Air Pollution Exposure and COVID-19 Mortality in Latin America	Laura Villalobos
Jorge Alexander Bonilla / Claudia Aravena (Universidad de Los Andes)	Assessing Multiple Inequalities and Air Pollution Abatement Policies	Ridhima Gupta
Allen Blackman (Inter-American Development Bank)	Breathe Easy, There's an App for That: Using Information and Communication Technology to Avoid Air Pollution in Bogotá	Prachi Singh

Collaborative Policy meeting: Natural Capital Collaborative (NatCap)

The Natural Capital Collaborative (NCC) is hosted by the Environmental and Policy Research Centre (EPRU) at the University of Cape Town. The focus of the NCC is to contribute to the mainstreaming of ecosystem services in decision-making in the Global South by furthering the knowledge and empirical understanding of valuing, accounting for, securing and enhancing these services. The aims of the session will be to:

- Hear about recent and ongoing research that different centres are involved in (each centre will have an opportunity to give an overview, a few slides are welcome);
- Discuss possible future research directions for the collaborative (we will kick this off with a presentation) and obtaining feedback from EfD researchers on areas of research that they would like to see included; and
- Receive feedback from EfD centers and researchers on how they would like to work with the NCC and sketch out some objectives for 2022

Collaborative Policy meeting: Sustainable Management of Coastal Marine Resources (CMaR)

The Sustainable Management of Coastal Marine Resources (CMaR) program aims to provide useful policy advice by having a good understanding of the complex and adaptive relationship between human societies and coastal ecosystems. The objective of the collaborative session is to brainstorming about policy challenges in the context of CMaR. The result should be a tentative research agenda that should increase synergies across participating centers and hence, the chances of getting funding from different sources.

Collaborative Policy meeting: Blue Resources for Development (BlueRforD)

Blue Resources for Development (BlueRforD) is a Efd collaborative program coordinated by Efd Sweden and Efd Vietnam, current members of the collaborative come from Efd centers in Central America, Chile, Colombia, Ghana, Nigeria, South Africa, Tanzania, China, India, Vietnam, and Sweden. The program aims to promote and develop collaborative research and policy engagement activities in economics of marine and coastal resources. This may include fisheries, aquaculture and marine spatial planning with links to welfare and poverty alleviation under a gender perspective of coastal communities. The main goals for the session are:

- To identify research topics that have the potential for multi-country collaborations to then develop collaborative research proposals.
- To identify opportunities for policy engagement activities between and among several countries.

Tuesday, November 16

Parallel Sessions 2A, 2B, 2C, 2D & Collaborative Policy meetings

15:00-17:00

Chair: Saudamini Das

Parallel sessions 2A:		
Conservation		
Author	Title	Discussant
Saudamini Das (Institute of Economic Growth)	Economics of Conservation of Endangered Birds: The case for Gyps Vultures in India	Edwin Muchapondwa
Julia Naime (Norwegian University of Life Sciences)	Land use and livelihood impacts of two incentive-based conservation interventions in Ucayali, Peru	Alemu Mekonnen
Jorge Maldonado (Los Andes University)	Understanding Livelihoods of Artisanal Fisheries in Marine Protected Areas in the Colombian Caribbean: A Fishing Household Production Model	Sebastien Gerard Costedoat
Sebastien Gerard Costedoat (Conservation International)	Conservation incentives can be a cost-effective step in climate mitigation, while targeting poverty reduction: Bolsa Verde impacts within rural settlements in Brazil	Julia Naime

Chair: Erin Litzow

Parallel sessions 2B:		
Electricity Consumption		
Author	Title	Discussant
Disha Gupta (Delhi School of Economics)	Free Power, Irrigation and Groundwater Depletion: Impact of the Farm Electricity Policy of Punjab, India	Marta Talevi
Leonard Missbach (Mercator Research Institute on Global Commons and Climate Change)	Appliance Uptake Across Low and Middle Income Countries - Evidence from Micro Household Data	Rob Fetter
Joseph Wilson (University of Ghana)	Institutional Quality and Investment in Renewable Electricity in Sub-Saharan Africa	Philip Kofi Adom
Sied Hassen (Environment and Climate Research Center)	The effect of electricity price reform on households' electricity consumption in urban Ethiopia	Shefali Khanna

Chair: Salvatore Di Falco

Parallel sessions 2C:		
Health and Labor Supply		
Author	Title	Discussant
Salvatore Di Falco (University of Geneva)	Long-Term Impacts of Emergency Aid on Health	Katrina Mullan
Bridget Lynn Hoffmann (Inter-American Development Bank)	Exposure or income? Labor supply on high pollution days	Raavi Aggarwal
Raavi Aggarwal (Mercator Research Institute on Global Commons and Climate Change)	Collective model of household consumption, production and labour supply: Evidence from Kenya	Chalmers Mulwa

Chair: Carlos Chavez

Parallel sessions 2D:		
Household Welfare and Decisions		
Author	Title	Discussant
Taiwo Akinyemi (West Virginia University)	The Wealth-Increasing Impacts of Power Plants on Local Residents: Evidence in Nigeria	Tensay Hadush Meles
Peter Babyenda (Makerere University)	Adaptation to Climate Variability and Household Welfare Outcomes in Uganda	María Angélica Naranjo Barrantes
Carlos Chavez (University of Talca)	Private Benefits of Biomass Heating Stove Replacement Policies: Evidence from Across the Chilean Income Distribution	Taiwo Akinyemi

Collaborative Policy meeting: Women in Environmental Economics for Development (WinEED)

The main objective of this program is to build a pipeline and enhance capacity of women from the Global South to take on research leadership in environmental economics for poverty alleviation. We build capacity of young women researchers by identifying barriers that women from all backgrounds find while deciding to study economics, during their undergraduate studies and what affects their decision on continuing a specialization in economics and become researchers and professors. The specific goals for the session are:

- Identify new members of the network.
- Identify new activities to strength the WinEED network within and between regions.
- Discuss new activities to run the mentorship program.

Collaborative Policy meeting: Forest Collaborative

The Forest Collaborative is a community of practice that aims to generate new knowledge on forests in the global south that can be used to guide conservation, restoration and management. We do that by holding semi-annual meetings that give participants an opportunity to present and get feedback on their research, organizing collaborative research projects, identifying opportunities to secure research funding, and helping to disseminate research by, for example, coordinating special issues of scholarly journals.

The main item in the agenda is the discussion of a potential special issue on forests and human health. We will also allocate time to discuss interest in applying to the EfD special funds for policy engagement and peer-learning initiatives.

Wednesday, November 17

Parallel Sessions 3A, 3B, 3C, 3D & Collaborative Policy meetings

15:00-17:00

Chair: Jorge Dresdner

Parallel sessions 3A:		
Aquaculture & Fisheries		
Author	Title	Discussant
Quach Thi Khanh Ngoc (Nha Trang University)	Impacts of Marine Litter on Production Risk and Technical Efficiency in Trawl Fisheries of Vietnam	Hide-Fumi Yokoo
Jorge Dresdner (University of Concepción)	Opportunities and challenges for small-scale aquaculture: The stakeholders' perspective in Los Lagos Region-Chile	Håkan Eggert
Wisdom Akpalu (GIMPA)	Context, Welfare Sensitivity and Positional Preferences Among Fisherfolks in a Developing Country	Leonardo Salazar
Manuel Estay (University of Concepción)	Location choice in a natural resource industry: The case of Chilean aquaculture	Jorge Dresdner

Chair: Thomas Klug

Parallel sessions 3B:		
Energy choices, Electricity and impacts		
Author	Title	Discussant
Samuel Osei-Gyebi (Kwame Nkrumah University of Science and Technology)	Electricity outages and firm performance in sub-Saharan Africa	Abebe Damte
Sinem Ayhan (Mercator Research Institute on Global Commons and Climate Change)	Evaluating the impacts of mini-grid electrification in sub-Saharan Africa	Bahre Gebru Kiros
Nuredin Juhar Mahammednur (AAU)	Residential fuel consumption and technology choices: An application of FG-NLS and Multinomial logit model	Nicholas Kilimani
Bahre Gebru Kiros (Swedish University of Agricultural Sciences)	The impacts of forest degradation on fuel choice in Uganda	Krishnapriya Perumbillissery

Chair: Monica Jaime

Parallel sessions 3C:		
Behavioral & experimental economics		
Author	Title	Discussant
Kwami Adanu (GIMPA)	Time Discounting, Political Affiliation, and COVID-19 Masking Compliance Among Fisherfolks in Ghana	Thong Ho
Gemeda Akuma (Addis Ababa University)	The Impact of Information on Technology Adoption and Productivity: A Randomized Controlled Trial in Rural Ethiopia	Johane Dikgang
Monica Jaime (University of Concepción)	Can school environmental education programs make children and parents more pro-environmental?	Reza Daniels
Cesar Salazar (University of Bio-Bio)	From theory to action: Explaining the process of knowledge attitudes and practices regarding the use and disposal of plastic among school children in Chile	Jorge Higinio Maldonado

Chair: Mauricio Oyarzo

Parallel sessions 3D:		
Renewable energy and mining windfall		
Author	Title	Discussant
Ngoc Tham (EfD Vietnam)	Preferences for Residential Solar Power System in Vietnam: Evidence from a Choice Experiment Study	Jens Rommel
Mukti Nath Subedi (Deakin University)	Who benefits from the decentralized energy system (DES)? Evidence from Nepal's micro-hydropower (MHP)	Mauricio Oyarzo
Mauricio Oyarzo (University of Concepcion)	Shocks derived from mining windfalls and horizontal transfers: Exploring the permanent-income hypothesis in Chilean municipalities from a spatial competition approach	Juliana Helo Sarmiento

Collaborative Policy meeting: Emission Pricing for Development (EPfD)

The Emission Pricing for Development (EPfD) Initiative is carried out in collaboration with the Indian Statistical Institute (ISI), New Delhi, and focuses on developing pricing approaches for abatement of climate gasses in the Global South. Previous research has included examining the political economy of coal phase-out, mobilization of resources for sustainable development in Indonesia, assessing the distributional effects of carbon pricing in low-and middle-income countries, and understanding determinants of politically acceptable emissions pricing policy packages. Through the collaborative, EfD aims at creating a community of researchers and academicians that engage with policymakers to share and expand the capacity for analysis and designing of politically viable carbon pricing policies. The session will aim at:

- Discussing ongoing projects/research carried out in collaboration with MCC, Berlin
- Presenting future research directions that the collaborative aims to follow
- Receive feedback from EfD centers and researchers on their interest: We hope to hear from all of you interested in climate policy how you would like to contribute to this collaborative.

Collaborative Policy meeting: Agriculture and Food Systems

The objectives of the session are to:

- provide introductory remarks on how the current food systems in developing countries are confronted with a myriad of challenges that are all inexorably linked to the sustainability of agricultural practices
- briefly present the gaps the program sets out to fill and the pivotal thematic areas identified in accordance with the gaps
- receive feedback and discuss concrete future steps on teaming up of researchers across centers on the collaborative program

Thursday, November 18

Parallel Sessions 4A, 4B, 4C, 4D & Collaborative Policy meetings

15:00-17:00

Chair: Jesper Stage

Parallel sessions 4A:		
Theoretical models and Public good		
Author	Title	Discussant
Cesar Mantilla (Del Rosario University)	Optimal siting and sizing of a noxious facility	Jessica Coria
Jesper Stage (Luleå University of Technology)	Public purchases in oligopsonistic markets: A note	Cesar Mantilla
Maria Naranjo (Wageningen University and Research)	Modelling choices and social interactions with a threshold public good: Investment decisions in a polder in Bangladesh	Jesper Stage

Chair: Yonas Alem

Parallel sessions 4B:		
Weather Shocks, Impacts, Adaptation & Mitigation		
Author	Title	Discussant
Abhiroop Mukhopadhyay (Indian Statistical Institute-Delhi)	Weather Shocks, Domestic Migration and Human Capital	Yonas Alem
Luat Huu Do (University of Economics in Ho Chi Minh City)	Behavior and effects of climate change adaptation strategies: evidence from shrimp farming in the Mekong Delta of Vietnam	Marie-Charlotte Buisson
Suhyun Jung (West Virginia University)	The Impacts of Transnational Aid to Mitigate Climate Change and Improve Livelihoods: Evidence from Ghana	Jens Ewald

Parallel sessions 4C:		
Livelihoods, Gender and Illegal Activities		
Author	Title	Discussant
Hoa Le Dang (Nong Lam University)	Gender-differentiated determinants of rice farmers' choice of adaptation strategies to salinity intrusion in the Mekong Delta, Vietnam	Godwin Kofi Vondolia
Diego Martin (Purdue University)	The Unintended Effects of Illegal Crops Substitution Program on Child Labor	Michael Tanner
Wisdom Akpalu (GIMPA)	Passive Participation in Illegal Fishing and The Welfare of Fishmongers in a Developing Country	Diego Martin

Collaborative Policy meeting: Inclusive Green Transformations

The EfD Inclusive Green Transformations Initiative consists of larger projects where EfD researchers actively engage with policy makers in ministries and agencies to support evidence based decisions for sustainable development. The purpose of this session is to present the SDG8 Initiative and the Inclusive Green Economy Programme to a broader audience and to discuss synergies, opportunities and challenges during implementation in Uganda, Kenya, Nigeria and other countries. We will also discuss opportunities for more EfD centers and researchers to get involved in these projects.

The SDG8 Initiative: The University of Gothenburg has been asked by the International Association of Universities (IAU) to take a lead specifically on SDG 8. Collaboration on SDG 8 has been initiated with universities in Ethiopia, Kenya, Nigeria, Uganda, Tanzania, Vietnam, Colombia, and Chile. Review papers on the different SDG 8 targets are being developed and will be discussed by stakeholders in various “EfD countries”.

The Inclusive Green Economy Program: Civil servants from MoFinance and other Ministries and agencies in Uganda, Ethiopia, Rwanda, Tanzania and Kenya are currently involved in this program aiming to increase the capacity inclusive green economic reforms in different sectors. In each country, researchers at the EfD centers provide support to the civil servants in the program. The program is financed by Sida and implemented by EfD and the Centre for Sustainable development at the University of Gothenburg.

Collaborative Policy meeting: Sustainable Energy Transitions Initiative (SETI)

The Sustainable Energy Transitions Initiative (SETI) is an interdisciplinary global collaborative that aims to foster research on energy access and energy transitions in low- and middle-income countries and to better understand their impacts on health, social outcomes, economic growth, climate change, and natural resources. SETI also contributes through capacity building of researchers from the Global South, holds meetings to convene researchers, policymakers, and practitioners from around the world to motivate more policy-relevant research and improve decision-making based on empirical evidence. If you want to know how to get involved with our network, please write to us at SETI@udec.cl

Goals for the session: present to the audience our SETI network (past and future perspectives), engage participants for future activities, propose a strategy for policy interaction in the framework of the EfD collaborative grant.

Friday, November 19

**Inclusive Low-Carbon Transitions for Sustainable Development in the Global South:
Development of an actionable research agenda**

Parallel session: 15:30 – 16:25

- (i) Regional perspectives (incl regional policy reviews, emissions markets and pricing, aligning climate finance with national policies)
- (ii) Enabling policy environment (incl actor analysis of decarbonization, systematic review of policy instruments for decarbonization, approaches to assess implications of decarbonization, risk reducing carbon transition policies).
- (iii) Sectoral themes (incl energy, infrastructure, forest and land use).
- (iv) Mobilizing new climate investment models (incl innovative financial instruments, promoting private sector investments)
- (v) Cross-cutting themes (incl gender equality and women's economic empowerment, human capital and institutions needs assessment).