



Annual Report 2014

Centre for International Environmental Studies

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1. Summary overview of major accomplishments and developments

The Centre for International Environmental Studies (CIES) was established in 2010 for the purpose of developing political, legal and economic discourse on problems related to the global environment. It is dedicated to the better understanding of the social, economic and political facets of global problems related to the environment.

In 2014 CIES commenced several of its research projects under the new *Innovation, Sustainable Growth and Technological Change* programme. This programme bundles the CIES research on the possibilities for technological adaptation in light of climate change. Several research projects are contained under this programme, namely 'Innovation, Diffusion and Green Growth', 'Access to Clean Energy for the Green Economy in Developing Countries', 'Greenspill: the Role of Multinational Firms for the Diffusion of Clean Technology' 'Costassess: the Costs to Adopting Technology Restrictions in South Africa' and 'The Impact of Innovation on Sectoral Energy Intensity in Switzerland'.

The 'Innovation, Diffusion and Green Growth' project (Singeria, SNF) commenced in January with a workshop bringing together researchers from all partners, ETH Zurich, EPFL and LSE. Within the 'Adoption of Clean Energy Technologies in South Africa' project (SNF), which also commenced in January, researchers from CIES travelled to South Africa to commence research and collaboration with South Africa partners on the opportunity costs for that country of not exploiting all its substantial coal reserves. The project 'Diffusion of Clean Air Technologies' (SNIS) started in February, and a PhD candidate conducted field research in Indonesia during the summer. Finally, a new research project 'Impact of Innovation on Sectoral Energy Intensity in Switzerland' (funded by the Swiss Federal Office for Energy) began in September.

The 3-year long EC FP7 project 'Global IQ' that CIES collaborated on with the Centre for Trade and Economic Integration (CTEI) has concluded this year. It successfully issued several research outputs including a policy brief and several research papers. Several projects headed by Prof. Marc Hufty are also finishing or entering final stages this year, including 'Adapting to Adaptation', 'Dynamics of Transcultural Management and Governance in Latin America'.

CIES organized several high-profile events in 2014. An event in partnership with IUCN and the French and Swiss governments, was co-organized to celebrate 50 years of their Red List of endangered species. Two Geneva Dialogues public lectures featured Prof. Shiv Someshwar of Columbia University and Dr. Maximo Torero from IFPRI as speakers. In the summer CIES co-organized the 16th annual BIOECON conference in Cambridge, UK. The conference, focusing on resource economics, continues to be popular and yet retains its small size in order to differentiate itself from other economics conferences. CIES concurrently co-organized a symposium on Global Land Use and Food Security, convening a broad range of scientists to discuss land simplification and risks to agricultural production as part of the 'Sustainable Human Niche' Project (MAVA Foundation). A CIES/Oxford workshop on Transnational Climate Governance and Domestic Politics

launched a new international collaboration on a special issue that analyzes how domestic policies and institutions shape the incentives and strategies of private actors, cities, NGOs and regions to coordinate action on climate change.

Regarding publications, CIES research resulted in nine journal articles, six books or book chapters, ten papers in the CIES Research Paper Series, and 35 paper presentations at international conferences, the latter primarily by CIES research assistants (PhD candidates). A notable event and publication highlight was the book 'Transnational Climate Change Governance' published by Cambridge University Press, and co-edited by Prof. Andonova, based on papers contributed to a two-day workshop co-organized in Oxford in June organized by CIES in Geneva in November, 2011.

CIES has been actively promoting itself within IHEID, in part by recruiting Masters students at IHEID to work on their thesis research within the ongoing research projects. CIES also organizes a Brown Bag Seminar series within IHEID open to the presentation of environment-related research from all disciplines, including some by visiting fellows and outside experts. These seminars and CIES's lectures regularly attract students from outside the Centre.

2. Staffing of the Centre

CIES is overseen by two Academic Directors, Prof. Timothy Swanson and Prof. Liliana Andonova. Programme Directors at the professorial level are Prof. Swanson (Innovation Sustainable Growth and Technological Change, Public Economics and the Environment, Resources and Development), Prof. Andonova (Environmental Governance, Innovation Sustainable Growth and Technological Change), and Prof. Marc Hufty (Environmental Governance, Resources and Development). Other Programme Directors include Dr. Joëlle Noailly (Innovation, Sustainable Growth and Technological Change) and Dr. Bruno Lanz (Public Economics).

The Centre has two administrative staff in 2014 with Dr. Derek Eaton, Executive Director overseeing the Centre and Kristine Kjeldsen serving to coordinate administrative activity. Ms Kjeldsen left CIES at the end of the year to proceed with her further studies and was replaced by Lys Kulamadayil, who is a PhD candidate in International Law.

In 2014 CIES has two research associates: Dr. Lanz and Dr. Eaton and one research fellow, Dr. Noailly. Dr. Noailly's research is funded by the Marie Curie Programme from the European Commission and Dr. Lanz is employed on the Sustainable Human Niche project, funded by the MAVA Foundation. Dr. Eaton's also conducts research work within this same project as well as the FoodSecure project, funded by the European Commission (FP7).

CIES employed eight Research Assistants in 2014, all of whom are currently PhD students in economics, development studies or international relations/political Science. Seven of these RAs were working on the maximum permitted half- time basis on research projects.

Martina Bozzola (Research Assistant) defended her PhD thesis this year, and has been offered a prestigious postdoctoral fellowship at the European University Institute. Four more research assistants are due to defend in the first half of 2015. One of them, Chiara Ravetti, has been offered postdoctoral positions at ETH Zürich and Oxford University. Another, Hamedullah Jamali, has accepted a position with UNEP.

Manoela Assayag (Research Assistant) has received a competitive Doctoral Research Fellowship to join the Sustainability Science Programme at Harvard Kennedy School during the 2014-2015 academic year.

The Centre had invited four Masters students in the spring to assist in research on various projects with Dr. Joëlle Noailly, Dr. Bruno Lanz and Prof. Timothy Swanson.

CIES had two visiting fellows in 2014. Dr. Luciana Oliveira, from Brazil, conducted research under the direction of Prof. Jorge Vinuales (a visiting fellow) on Energy Transition Policies. Xuan Huang is a junior visiting fellow from China conducting research together with Dr. Bruno Lanz on carbon credit schemes in China.

3. Active, ongoing research projects

In 2014, CIES had four research programmes comprised of 15 projects. Funding for these projects came from diverse sources, including European (EC FP7) and Swiss public research funding organizations (SNF and SNIS), and private foundations. For these projects, CIES partnered with a range of national and international academic institutions in Switzerland, elsewhere in Europe, and also other parts of the world, and also enjoyed the support of stakeholder organizations. The Centre's research serves both the academic and policy communities.

Public Economics and the Environment Research Programme

Environmental degradation as byproduct of human activities implies that preserving or improving environmental quality can only be achieved by giving up other opportunities. The aim of the research programme in Public Economics and Environment is to use the tools of economics to inform the design of environmental policy, striking a balance between public and private interests in the provision of environmental quality

A Sustainable Human Niche? Managing Global Land Use

This project analyses the sustainability of the continued expansion of the human niche due to the continued conversion of lands to food production. Global land use determines several outcomes jointly: aggregate food production; feasible human population; stability of the food production system; and availability of genetic resources. Together these outcomes determine the sustainability of the entire food production system, and consequently the capacity for the human niche to be supported. This project enables the examination of various pathways for land use – and demonstrates the joint outcomes along each pathway that result (food production, population, stability, genetic resources availability). In this way the issue of global land use is assessed within a framework very similar to that applied elsewhere by Stern (2006) in the analysis of climate change and growth pathways. We also simulate how aggregate outcomes vary across different assumptions concerning discounting, hazard rates, and technological change. In this way it is possible to examine the sustainability of various alternative global land use pathways – given the impact of land use on growth, systemic stability and resultant human welfare.

In 2014 several research papers have been published by Prof. Timothy Swanson and Dr. Bruno Lanz, and there has been extensive collaboration and input from external scientists, most recently in the Symposium on Land Use and Food Security, co-organized by CIES with the Luc Hoffmann Institute and the Grantham Research Institute from LSE, and held at King's College Cambridge. These papers were presented at a range of international academic conferences, and also to the World Economic Forum's Global Risks team.

Timothy Swanson, Prof. IHEID
Bruno Lanz, PhD, Research Associate

Derek Eaton, PhD, Executive Director
Arun Jacob, PhD Candidate, Economics and Research Assistant
Jules-Daniel Wurlod, PhD Candidate, Economics and Research Assistant
Funded by the MAVA Foundation, CHF 1 Million
Start: September 2012; End: June 2016
Competitive process

Resources and Development Research Programme

Developing countries are crucial to the resolution of global problems, especially their choices regarding development. CIES undertakes research considering how environmental regulation and growth combine to define development paths. Environmental degradation and competition over access to environmental resources can endanger human, state, and international security. CIES conducts research on themes of land use, food security and biodiversity in order to contribute to problem solving in developing countries. Both projects in this programme are funded by the European Commission.

FoodSecure – An Interdisciplinary Research Project to Explore the Future of Global Food and Nutrition Security

In 2011 CIES participated in an EU FP7 joint proposal with the International Food Policy Research Institute which considers the role of biodiversity in the issue of Global Food Security, and examines how institutions may be reformed to address matters of food security. The project started in March 2012. One of the biggest challenges facing society today is the widespread prevalence of hunger and food insecurity. Expanding consumption as well as volatility in global food prices over the past years has fuelled concerns about global food and nutrition security (FNS). Given that the development of societal and technological solutions requires time, long-term visions on global food and nutrition security and knowledge-based policies are required. The FoodSecure project aims to design effective and sustainable strategies for assessing and addressing the short- and long-term challenges of food and nutrition security. The project will provide a variety of analytical tools to experiment, analyse, and coordinate short- and medium-term policies. In doing so, the research will inform decision-making by a range of stakeholders in the EU and developing countries on consistent, coherent, long-term strategies to improve global FNS. CIES researchers will work specifically in the following areas: The role of innovation, research and development; institutional change policies in food and nutrition security; institutions that support innovation in the food system; and genetically modified crops as instruments to improve food and nutrition security.

In 2014, research was undertaken on climate change adaptation in Kenyan agriculture, and also the relationship between gender, crop diversity and economic performance in Uganda, both based on extensive household datasets. A cross-country analysis on aggregate productivity patterns in agriculture was further advanced with expected completion early in 2015.

Timothy Swanson, Professor IHEID-CIES
Derek Eaton, PhD, Executive Director, CIES
Jules-David Wurlod, PhD Candidate, Research Assistant
Martina Bozzola, PhD Candidate, Research Assistant
Katia Covarrubias, PhD Candidate, Research Assistant
Funded by the European Commission (FP7), 400,000 CHF
Start: March 2012; End: September 2016
Competitive Process

Global IQ - Impact Quantifications of Global Change

This project, which was completed in 2014, carried forward the research programme initiated by the Stern Review in 2006 and the successive IPCC reports which aim at assessing the scientific rationale for the anthropogenic climate risks, describing the possible consequences of climate changes and identifying the best mitigation and adaptation strategies to such a change for current century. The GLOBAL IQ project aimed to provide an update of the Stern review and a comprehensive assessment of the costs of climate change at the National, European and World scales in the medium and the long run together with an evaluation of the benefits of possible and adaptations policies. Within this project Prof. Timothy Swanson together with research assistant, Chiara Ravetti investigated the role of climate change management in the control of health impacts from air pollution in developing countries. A case study was undertaken to investigate how health is related to pollution in Beijing, and the means by which pollution controls impact on health. This project finished in 2014. Outputs include research papers titled 'A Household Survey of the cost of illness due to air pollution in Beijing, China', and 'Air Pollution in Urban Beijing: The Role of Government-controlled Information.'

Timothy Swanson, Professor IHEID
Chiara Ravetti, PhD Candidate, Research Assistant, International Economics
Funded by the European Commission (FP7), 114'000 EUR,
Start: September 2011; End: September 2014
Competitive Process

Environmental Governance Research Programme

The research programme on Environmental Governance looks at the legal tools that can be used or generated to fulfil the challenge of implementation facing international environmental law. The programme adopts an interdisciplinary perspective on the design, dynamics and impact of different institutional mechanisms. It explores legal foundations of, and models for, international energy governance. In 2014, the programme contained seven active research projects. Four of these projects were funded by the SNF and one other was privately funded. CIES patterned with several other research institutions in Switzerland, including the University of St. Gallen, University of Bern, UNIGE and the Swiss Federal Research Institute. CIES also cooperated with non-European institutions, such as the Pontificia Universidad Católica de Perú in Peru and the Institute of Management Sciences,

Peshawar in Pakistan. Furthermore, some of the projects enjoyed the support of international organizations.

Dynamics of Transcultural Management and Governance in Latin America

This project aims to put Latin America on the academic map in Switzerland and provide a coherent network to help young researchers establish themselves in the field. Thematically, the project links the concepts of management and governance. In a nutshell, while governance is about the processes that lead to decision-making, management takes decisions to implement policies or strategies effectively. In both cases, cross-cultural approaches are a requisite in the multi-ethnic Latin American contexts.

The evident interest among junior scholars reflects the vibrancy of Latin America in domains such as environmental policies. The region's increasing importance in the global order makes it all the more indispensable to explore and understand it. Our ProDoc initiative aims to complement the academic programmes in St. Gallen, Bern and Geneva, which provide funds for research (4 IHEID students have benefited so far), general methodological guidance and encourage broad, comparative perspectives for graduate students. This training module bundles academic competencies in Switzerland, promotes excellence, and fosters the contacts with experts outside the country.

Marc Hufty, Prof. IHEID

Partners: Main Applicant: Yvette Sánchez, Prof. University of St. Gallen (Main Applicant), Aline. Helg, Prof. UNIGE, and Corinne A Pernet, Prof. University of St. Gallen

Financed by SNF, ProDoc, CHF 451'000

Start: November 2013; End: October 2016

Competitive Process

Adapting to Adaptation (ADAPT2): Studying the influence of climate change adaptation discourses and policies on local governance processes

Adaptation to climate change aims at reducing the vulnerability and improving the resilience of societies confronted by negative impacts such as drought, floods, landslides, loss of biodiversity and others. It has become one of the international community's major responses to global change. The project is based on the assumption that societies adapt primarily to discourses on climate change (what they are being told by experts) and to policies associated with those discourses (funding mechanisms) rather than to climate change itself. The team aims at understanding how local governance processes and institutions respond or "adapt" to adaptation policies and discourses in three countries: Switzerland, Peru and Pakistan. The research results will be translated into knowledge useful at different levels (local, scientific and for practitioners).

Marc Hufty, Prof. IHEID

Morgan Scoville-Simonds, PhD Candidate, Development Studies, Research Assistant

Hameedullah Jamali, PhD Candidate, Development Studies, Research Assistant

Partners: Pontífica Universidad Católica de Perú; Institute of Management Sciences, Peshawar, Pakistan; Federal Institute WSL, Switzerland

Funded by the SNF, CHF 405'000

Start: May 2011; End: April. 2014

Competitive Process

Transnational Climate Change Governance

This project was jointly initiated by Prof. Harriett Bulkely, Prof. Michele Betsill and Prof. Liliana Andonova and for which Prof. Harriett Bulkeley generated research granting and led its subsequent management. It involved convening a network of scholars working on different forms of transnational governance of climate change and producing a database that demonstrated systematically some of the key characteristics of networked governance initiatives. Following the organization of a book writing workshop at the Graduate Institute and a second workshop in Canada, the above contributors produced a co-authored volume to be published this year by Cambridge University Press (see list of publications).

Liliana Andonova, Prof. IHEID

Funded by: The Leverhulme Trust

Transcultural Governance of the Environment in Latin America (TransGELA)

This research addresses the following key questions: What are the links between cultural identities and environmental governance? Have the changes in public participation and citizenship, especially in the case of indigenous groups and rural people, changed the way the environment is being governed? Has it improved livelihoods and resilience to global change? How can the recent theoretical developments and empirical observation of governance, transculturality, citizenship and environmental changes account for these situations? These questions are being answered by Prof. Marc Hufty's research, aided by case studies in Bolivia, Brazil, and Peru, in different contexts, mainly by comparative qualitative research, and grounded theory. The theoretical framework proposed here is political ecology, a perspective that focuses on the idea that politics, social institutions, history, spaces, and biogeophysical scales count when trying to explain the interactions between individuals, societies and their environment. It is interdisciplinary, interweaving the approaches of geography, political science and history (the applicants' disciplines) with the insights of anthropology, sociology legal studies and economics. Associated with St. Gallen's PhD school on Latin America this project is managed by IHEID and realized in collaboration with the University of Bern and local partners.

Marc Hufty, Prof. IHEID (main applicant)

Partners: St. Gallen University, University of Bern
Start: November 2011; End: October 2015
Financed by SNF, ProDoc, CHF 375'035
Competitive Process

Governance Entrepreneurs: International Organizations and Public-Private Partnerships

This is a book-length project that seeks to document and explain the rise of global public-private partnerships in the multilateral system and their impact on global governance objectives. Previous studies emphasize primarily exogenous factors such as globalization and the influence of transnational actors to account for public-private collaboration. Yet, this is only part of the story. The project highlights the critical role of international organizations (IOs) as entrepreneurs rather than just takers of institutional change.

The theoretical framework elaborates the Principal-Agent model of IOs to take into account the political relations between IOs, states, and non-state actors and to better specify the incentives, opportunities, and constraints that IOs face in facilitating partnerships. The implications of the model are assessed across multiple governance domains and IOs, characterized with variable organizational structure and partnership activity, e.g. issues of children's health, sustainable development, trade, and the partnership activities of the United Nations Secretariat. The project contributes to the study of international organizations and change in global governance. It does so by providing an encompassing and theoretically-informed analysis of global public-private partnerships and the interplay between intergovernmental institutions and transnational governance networks. The database of global partnerships, to be constructed as part of the project, will furthermore provide a basis for additional research and social scientific inquiry on the governance dynamics and effects of public-private collaboration. The project received support by the Swiss National Science Foundation (2011- 2013), which will enable its completion and construction of a database of public private-partnerships across several international organizations: the World Bank, UNEP, the WHO, UNICEF, the WTO, and the UN Secretariat.

Liliana Andonova, Prof. IHEID

Manoela Assayag, PhD Candidate, International Relations, Research Assistant

Defne Gonenc, PhD Candidate, International Relations, Research Assistant

Funded by SNF, 173,200 CHF

Start: April 2013; End: September 2014

Competitive Process

The Domestic Politics of Transnational Climate Governance

Prof. Andonova is working on this project in collaboration with Thomas Hale (Oxford) and Charles Roger (University of British Columbia). A joint paper titled "How do Domestic Politics Condition Participation in Transnational Climate Governance?" has been presented at multiple venues including at the Barcelona workshop on Global Governance (January, 2014), the Political

Economy of International Organizations conference Princeton (January, 2014) and Oxford University (2013). They are working on final revisions before submission. As part of the project they convened a workshop in June 2014 in Oxford for preparing a special journal issue on the topic.

Started May 2013, ongoing
Liliana Andonova, Prof. IHEID
Non-competitive process

EU Cost Action – Network on Climate Policy Innovation

COST is a framework for pan-European cooperation in and coordination of research activities. It is the oldest European initiative for collaboration in scientific and technical research. This initiative makes it possible for the various national facilities, institutes, universities and private industry and SMEs to work jointly on a wide range of R&D activities. COST is oriented towards basic research and research in the pre-competitive area.

Prof. Liliana Andonova is a member of the steering committee for the COST Network on Climate Policy Innovation and also collaborated to create the proposal for this network. Ideally the network would provide opportunities for CIES PhD researchers to attend training seminars, spend collaborative time with colleagues in other university, etc.

Liliana Andonova, Prof. IHEID
Competitive process

Innovation, Sustainable Growth and Technological Change Research Programme

Addressing climate change will require the large scale deployment of low-carbon technologies in key sectors such as power generation, transport and energy use. A range of these technologies - such as wind and solar energy or hybrid and electric cars – are already available but most still have higher costs than existing fossil-fuel based options. Other technologies have yet to be developed. In 2014, CIES had five research projects under the Innovation, Sustainable Growth and Technological Change programme. The funding for these projects came from the SNF, SNIS, the European Commission and the Swiss Federal Office for Energy. Project partners were the ESPL, ETH Zürich, and the LSE.

EU Marie Curie Fellowship Programme - Greenspill: The role of multinational firms in the diffusion of green technologies to developing countries

This project aims to study the role of multinational firms in the diffusion of green technologies to developing countries. This project has three main objectives: 1) to study the extent and motives of multinational firms to conduct green R&D activities in developing countries 2) to explore the impact of green technology transfers by multinationals on the environmental performance of developing countries 3) to draw policy implications on the role of

multinationals. The economic literature has long recognized the role of multinationals for the transfer of technologies to developing countries. Yet, the motivation for this project stems from the fact that the role of multinationals has not been much studied within the context of green technologies transfers, despite the immediate relevance of this topic on the international policy agenda. This research project aims thus to provide novel empirical evidence on the role of multinationals in green technology transfers and to build bridges between well-established methodologies from the field of international trade to the field of environmental economics. The research project will make a number of important contributions for the economic literature and for the design of European climate and innovation policies. First, by considering the number of foreign green patents invented (and not only filed) in developing countries, the research project proposes a novel indicator of technology transfers, thereby improving on the existing literature. The analysis will also examine how much and why multinational firms conduct green R&D outside their home country. Second, the analysis will use the newest methods from international economics to estimate the impact of green technology transfers by multinationals on the energy productivity of the receiving countries. Finally, the project will conclude by drawing policy implications on the role of multinational firms in the international diffusion of green technologies.

Joëlle Noailly, PhD, Research Fellow
Jules Wurlod, PhD Candidate, International Economics, Research Assistant
Funded by European Commission (FP7), 230,000 EUR
Start: April 2013; End: March 2015
Competitive Process

Innovation, Diffusion and Green Growth (Sinergia)

This project aims to explore theoretical, empirical and policy issues related to innovation, diffusion and green growth. The overarching objective of the project is to build a Swiss Network on the Economics of Green Growth, as a contribution to the Green Growth Knowledge Platform (GGKP). Each research team will focus on one specific topic: 1) economic modeling of growth and diffusion (ETH); 2) analysis of growth and diffusion, with a focus on developed countries and innovation (LSE); 3) analysis of growth and diffusion, with a focus on transfers of technology to developing countries (IHEID); 4) policies for green growth (EPFL). CIES has organized two workshops this year with all project members: a kick-off meeting in January, and a follow-up meeting in September.

Timothy Swanson, Prof. IHEID
Joëlle Noailly, PhD, Research Fellow
Giulia Valacchi, PhD Candidate, International Economics, Research Assistant
Partners: EPFL, ETH and LSE
Funded by SNF Sinergia Programme, CHF 1.5 Million
Start: January 2014; End December 2016
Competitive Process

COSTASSESS: The costs to adopting technology restrictions in South Africa

This project assesses the costs for South Africa of restricting the use of low-cost and abundant coal technologies. In this context, a better understanding of the cost structure of the coal industry will help to clarify how state intervention can enable the diffusion of alternative clean technologies, and thereby move South Africa towards a green economy pathway.

The primary research objective is to determine the cost of restricting a particular technology and resource when the country imposing this restriction has heavily invested in the technology in question and is rich in the particular resource. South Africa represents an interesting and important context within which to pursue this question. South Africa is heavily-endowed with low-cost coal, and it has relied entirely upon this endowment for both its own rapidly growing energy requirements and as a major source of export earnings. While a restriction on the use of coal may be substantially mitigated by means of diffusion of alternative technologies, the availability and scalability of these technologies in the South-African context will need to be assessed. In addition, there are residual costs to a country such as South Africa that is well-endowed with the resource subject to the restricted technology.

In this first year, CIES has had one full-time research assistant working on the project, and a research trip to South Africa has already taken place.

Timothy Swanson, Prof. IHEID

Chiara Ravetti, PhD Candidate, International Economics, Research Assistant
Funded by SNF, Swiss South African Joint Research Programme, CHF
229,320

Start: January 2014; End: December 2016.

Competitive Process

Access to Energy for the Green Economy in Developing Countries

This project aims to provide an in-depth investigation of the barriers to diffusion of low-cost clean energy technologies to developing countries as well as to the governance mechanisms that can help to unlock diffusion and improve clean energy access. Anchored in the Graduate Institute's Centre for International Environmental Studies (CIES) and funded by the Swiss Network for International Studies (SNIS), this project involves interdisciplinary partners across academia, including the University of Bern, ETH Zurich, University of Geneva, Harvard University, as well as UNEP, which represents the prominent international organizational partner. The research project is co-ordinated by Liliana Andonova and Joëlle Noailly, Research Associate. The aim of this research is to both identify the obstacles that hinder the access to clean technologies in developing countries, but also to assess which procedures at the governance level may be applied in order to facilitate their diffusion. At the same time, the research also involves practical aspirations, which are to find best practices in order to reinforce the institutional capacity of developing countries to adopt clean technologies.

Liliana Andonova, Prof. IHEID

Joëlle Noailly, PhD, Research Fellow

Suchita Srinivasan, PhD Candidate, International Economics, Research Assistant
Kathryn Chelminski, PhD Candidate, International Relations, Research Assistant
Funded by SNIS, CHF 259,525
Start February 2014; End January 2016.
Competitive Process

The Impact of Innovation on Sectoral Energy Intensity in Switzerland

This project aims to investigate how green innovation can contribute to improve the energy intensity of various sectors in Switzerland and other OECD countries. The analysis links data on green patent stocks to energy intensity estimates per sector by applying a newly developed concordance table matching patents to their sectors of use. The model estimates a Translog cost function to measure the impact of green innovation next to other factors such as input substitution or structural changes.

Joëlle Noailly, PhD, Research Fellow
Jules Wurlod, PhD Candidate, International Economics, Research Assistant
Funded by the Swiss Federal Office of Energy, CHF 90,600
Start: September 2014; End: May 2016.
Competitive Process

4. Other active, ongoing projects

Manoela Assayag (PhD candidate, International Relations) applied for and was granted, with support from Prof. Andonova, a competitive Doctoral Research Fellowship to join the Sustainability Science Programme at Harvard Kennedy School during the 2014-2015 academic year.

Martina Bozzola (PhD, International Economics; granted 2014) applied for and was granted, with support from Prof. Swanson, a competitive Max Weber Post-doctoral Fellowship with the European University Institute in Florence, Italy for 2015-2016.

Both of these awards represent professional recognition of the research undertaken and published by these researchers within CIES research projects (described above).

5. Proposals submitted during 2014

Informing Energy Efficiency Investments: Energy Savings and Financial Returns

This is a collaborative R&D project between IHEID, EPFL and Retraites Populaires. The project develops a systematic approach to prioritize energy efficiency investments in a portfolio of residential buildings. First, we collect data on investment and energy consumption over time for a representative

sample of buildings. Second, we empirically estimate energy savings achieved by different energy efficiency investments. Third, we design and publish a way to identify renovation strategies maximizing energy savings at a given investment cost.

Bruno Lanz, PhD, Research Associate
Applied with the Swiss Commission for Technology and Innovation, Funding requested: CHF 147,084
Project duration: 8 months.
Competitive Process
Status: Pending

Environmental Policy and Competitiveness: Employment, Firms' location and technology adoption

Emissions trading programmes create a price signal for polluting activities and incentivizes pollution abatement. Over the last few decades, it has become a centerpiece of environmental policy in the United States and in Europe. In the context of climate policy, carbon quotas handled through emission trading programmes are worth over \$175 billion (Kosoy and Guigon, 2012), covering more than 20 percent of global carbon emissions (Kosoy et al., 2013). While theoretical literature on emissions trading is extensive, empirical evidence on the incidence of such policy remains scarce. The objective of the proposed research is to empirically examine how firms respond to emission trading policies and environmental policy more generally in the European Union (E.U.), in China and in the United States (U.S.). The goal is to identify the impacts on employment, location and trade, and technology adoption, and thereby inform the design of future environmental policies.

Timothy Swanson, Prof. IHEID
Bruno Lanz, PhD, Research Associate
Applied with SNF, Funding requested: CHF 663,144
Competitive Process
Status: Pending

The Impact of Innovation on Sectoral Energy Intensity in Switzerland [see description above in Section 3]

Joëlle Noailly, PhD, Research Fellow
Jules Wurlod, PhD Candidate, International Economics, Research Assistant
Funded by the Swiss Federal Office of Energy, 90,600 CHF.
Start: September 2014; End: May 2016.
Competitive Process
Status: Approved

6. Publications

CIES researchers contributed to 6 books and published 6 articles in academic journals with three more forthcoming in early 2015. Additionally, 13 research and policy papers were authored or co-authored by CIES staff. Over the course of the year, CIES researchers presented their work at 35 conferences in Switzerland and abroad.

Books, Articles, Edited Volumes and contributed chapters

Academic and Policy oriented

Andonova, Liliana, H. Bulkeley et al. *Transnational Climate Change Governance*. Cambridge University Press 2014.

Andonova L. and I. Tuta. *Greener Together? Transnational Networks and Environmental Protection in the Enlarged EU* in Eds. L. Bruszt and G. McDermott (Eds.): *Assembling Level Playing Fields: Transnational Regulatory Integration and Institutional Change in Emerging Markets*,. Oxford University Press 2014.

Eaton, D. and G. Graff. *The Dynamic IP System in Crop Genetics and Biotechnology*, in Stuart J. Smyth, Peter W.B. Phillips and David Castle (Eds.): *Handbook on Agriculture, Biotechnology and Development*. Edward Elgar Publishing 2014.

Swanson, T. and B. Groom. *Regulating Global Biodiversity* in Hepburn C. and D. Helm (Eds.): *Nature in the Balance: The Economics of Biodiversity*,.. Oxford University Press 2014.

Hufty, Marc., *Indigenous and local people*, in: Orsini, A. and Morin J.-F. (Eds): *Essential Concepts of Global Environmental Governance*. Routledge/Earthscan 2015. Pp. 95-98.

Hufty, M., Schulz, T., Tschopp, M. *The Role of Small States: Switzerland*. In Sebastian Oberthür and Kristin Rosendal (Eds.): *Global Governance of Genetic Resources: Access and Benefit Sharing after the Nagoya Protocol*. Earthscan/Routledge 2014. Pp. 96-113..

Articles published in scientifically refereed journals

Academic and policy oriented

Andonova, Liliana B. 2014: *Boomerangs to Partnerships? Explaining State Participation in Transnational Partnerships for Sustainability*. *Comparative Political Studies* 47(3): pp. 481-515., first published on December 27, 2013

Andonova, Liliana B. and Ioana A. Tuta 2014: *Transnational Networks and Paths to EU Environmental Compliance: Evidence from New Member States*. *JCMS: Journal of Common Market Studies* 52(4): pp.775–793,

Andonova, Liliana B. & Gilles Carbonnier 2014: *Business Humanitarian Partnerships: Processes of Normative Legitimation*, *Globalizations*, 11(3):: pp. 349-367

Bozzola, M. and T. Swanson. 2014. *Policy Implications of Climate Variability on Agriculture: Water Management in the Po River Basin, Italy*. *Environmental Science & Policy* 43: pp. 26–38.

Di Falco S., Adinolfi F., Bozzola M., Capitanio F. 2014. *Crop Insurance as a Strategy to Adapt to Climate Change*. *Journal of Agricultural Economics* 65 (2): pp. 485–504.

Swanson, T., G. Perino and L. Panzone 2014, *Motivation Crowding in Real Consumption Decisions: who is messing with my groceries?* *Economic Enquiry* 52(2): 592–607

Schulz, T., Hufty, M., Justiniano, S. Small and Smart: *The Role of Switzerland in the Cartagena and Nagoya Protocols negotiations* (submitted, *International Environmental Agreements*, Springer Publishing)

Larsen, P.B., Hufty, M. Tran, C.T. Gagnon, S. *Biodiversité en péril: la difficile régulation du commerce des espèces sauvages au Vietnam*. (submitted, *VertigO Revue Electronique*)

Swanson, T., M. Sarr and X. Liu. *Resistance to Regulation of Resources in Rural Tunisia*, *Land Economics*, forthcoming 2015.

Research Papers, Policy Papers and other Publications

Academic and policy oriented

Noailly J., Ryfisch D. *Multinational Firms and the Internationalization of Green R&D: A Review of the Evidence and Policy Implications*. CIES Research Paper no. 33

Lanz, B., Panzone L., Swanson T., and J-D. Wurlod. *Clean Substitutes and the Effectiveness of Carbon Footprint Labels vs. Pigovian Subsidies: Evidence from a Field Experiment*. CIES Research Paper no. 32.

Swanson, T, Larcom, S. *Documenting Legal Dissonance: Legal Pluralism in Papua New Guinea*. CIES Research Paper no. 31.

Swanson, T. Liu, X., Sarr, M. *Resistance to the Regulation of Common Resources in Rural Tunisia*. CIES Research Paper no. 30.

Lanz, B., Dietz, S. and Swanson, T. *Running with the Red Queen: An integrated assessment of Agricultural Land Expansion and Global Biodiversity Decline*. CIES Research Paper no. 29.

Ravetti, C., T. Swanson, Y. Popp Jin, M. Quan, Z. Shiquiu *A Household Survey of the cost of illness due to air pollution in Beijing, China*. CIES Research Paper no. 28

Ravetti, C., T. Swanson, Y. Popp Jin, M. Quan, Z. Shiquiu. *Air Pollution in Urban Beijing: The Role of Government-controlled Information*. CIES Research Paper no. 27

Ravetti, C, T. Swanson, M. Quan, X. Xie, Z. Shiquiu *Ancillary Benefits of GHG Abatement Policies in Developing Countries: A Literature Review*. CIES Research Paper no. 26

Lanz, B. and S. Dietz, T. Swanson. *Global Population Growth, Technology and Malthusian Constraints: A Quantitative Growth Theoretic Perspective*. CIES Research Paper no. 25

Noailly, J. and Smeets, R. *Directing Technical Change from Fossil-fuel to Renewable Energy Innovation: An application using firm-level data*. CIES Research Paper no. 24

Lanz, B. and Provins, A. *Estimating the demand for tap water quality: Averted expenditures on substitutes for hardness and aesthetic quality*; CIES Research Paper no. 23

Eaton, D., Kumar, P., Bindraban, P., Hazell, P., Phalan, B., Swaminathan, M.S.. *Food Security and Biodiversity: Challenges, Conflicts and Options*. Policy Brief under Valuation & Accounting of Natural Capital for Green Economy (VANTAGE). UNEP Policy Series: Ecosystem Management. Issue No. 14, June 2014. (report of an expert panel discussion held at the 2013 BIOECON conference)

Ravetti, C., and Baldwin, R. European Policy Brief. GLOBAL IQ *Global competition and international trade*. (within the framework of the Global IQ project)

Papers presented at conferences by CIES researchers

Academic and policy oriented

The clean energy regime complex

2014 Swiss Political Science Association Conference,
30-31 January, University of Bern, Switzerland.

L. Andonova and K. Chelminski

Multinational firms and the internationalization of green R&D

International Academic Symposium on "R&D and energy", Barcelona,
January 2014
J. Noailly

**A Ricardian Analysis of the Impact of Climate Change on Italian
Agriculture**

The Italian Association of Environmental and Resource Economists (IAERE)
2nd Annual Conference, Milan, IT
February 2014
M. Bozzola

**Adaptation to Climate Change: Farmers' Risk Preferences and the Role
of Irrigation**

Young Swiss Economists Meeting (YSEM) 2014, Bern, CH
February 2014
M. Bozzola

**MAVA-LU model: Long run technical change and implication for yield
growth**

FoodSecure Workshop
February 2014
B. Lanz

Is there a clean energy regime complex?

2014 International Studies Association Conference,
26 March 2014, Toronto, Canada.
K. Chelminski

**On the value of water supply services: Evidence from revealed and
stated preference methods**

Seminar at EPFL, March 2014
B. Lanz

**Models-as-usual for unusual risks? On the value of catastrophic climate
change**

Seminar at University of Bern, March 2014
B. Lanz

**Adaptation to Climate Change: Farmers' Risk Preferences and the Role
of Irrigation**

17th World Congress of the International Economic Association, Dead Sea,
JO
June 6-10, 2014
M. Bozzola

**Air Pollution in Urban Beijing: The Role of Government-controlled
Information.**

World Congress of the International Economics Association (IEA), Amman
(Jordan), June 6-10 2014
C. Ravetti

Multinational firms and the internationalization of green R&D",with Roger Smeets

World Congress of Environmental and Natural Resource Economics, Istanbul, June 2014
J. Noailly

Trade and Resource-Driven Technical Change

GCW - Smart, Inclusive and Sustainable Growth, Turin (Italy), 18-20 June 2014
C. Ravetti

Global population growth, technology, and Malthusian constraints: A quantitative growth theoretic perspective

Monte Verità Conference on Sustainable Resource Use and Economic Dynamics, June 2014
B. Lanz

Consumer choice and environmental policies: A field experiment comparing labels, subsidies and bans across different products.

World Congress of Environmental and Resource Economists, Istanbul June 28-July 2, 2014
J. Wurlod

Adaptation to Climate Change: Farmers' Risk Preferences and the Role of Irrigation

European Summer School in Resource and Environmental Economics (EAERE/FEEM/VIU), Venice, IT (Got the Outstanding Presentation of Research Award: EAERE-FEEM-VIU for this presentation)
M. Bozzola

A Ricardian Analysis of the Impact of Climate Change on Italian Agriculture

The World Congress of Environmental and Resource Economists (WCERE) 2014, Istanbul, TR, July 2014
M. Bozzola

Emissions, Exporters and Heterogeneity (with Baldwin)

European Economic Association Congress (EEA-ESEM), Toulouse (France), 25-29 August 2014
C. Ravetti

Adaptation to Climate Change: Farmers' Risk Preferences and the Role of Irrigation

29th Annual Congress of the European Economic Association, Toulouse, FR
M. Bozzola

Adaptation to Climate Change: Farmers' Risk Preferences and the Role of Irrigation

14th Congress of the European Association of Agricultural Economists

(EAAE), Ljubljana, SI August 2014
M. Bozzola

A model of IPRs in the international supply chain of seeds and agricultural production

14th Congress of the European Association of Agricultural Economists (EAAE), Ljubljana, SI August 2014
D. Eaton

Consumer choice and environmental policies: A field experiment comparing labels, subsidies and bans across different products

16th Annual BIOECON Conference, Cambridge
September 21-23, 2014
J. Wurlod

Global population growth, technology, and Malthusian constraints: A quantitative growth theoretic perspective

Bioecon Conference, September 2014
B. Lanz

Economic growth, population, food demand, and global land use: An integrated assessment

Annual Pierre du Bois Conference: Economic Development in the Anthropocene, September 2014
B. Lanz

The Impact of green innovation on sectoral energy intensity: An empirical analysis of industrial sectors in OECD countries

Sinergia Workshop on Innovation, Diffusion and Green Growth, Geneva
September 26, 2014
J. Wurlod

Dual labour market and coal price shock

Sinergia Workshop on Innovation, Diffusion and Green Growth, Geneva, Sept. 26 2014
C. Ravetti

Multinational firms and the globalization of green R&D

Sinergia Workshop
September 26, 2014
J. Noailly

The light at the end of the tunnel: The Impact of Policy on the Global Diffusion of Compact Fluorescent Lamps

Sinergia Workshop
September 26, 2014
S. Srinivasan

Emissions, Exporters and Heterogeneity

Geneva Trade and Development Workshop- WTO, Geneva

C. Ravetti

Global population growth, technology, and Malthusian constraints: A quantitative growth theoretic perspective

Seminar in Energy, Environmental and Resource Economics at ETH Zurich, October 2014,

B. Lanz

Divergence in the sustainable energy trinity and its implications for sustainable development: The case of Indonesia,

Presentation at the PhD Interdisciplinary Seminar, Graduate Institute, Geneva, 5 November 2014

K. Chelminski

Les ambitions et les réalités de «l'accès à l'énergie pour tous» en Indonésie/Ambitions and realities of “energy for all” in Indonesia, Exposé à «Energie et cohésion: gouvernance, régulations et négociations»

Groupe de recherche, CERI/CRNS, Sciences Po, Paris, 12 November 2014

K. Chelminski

A dragon eating its own tail (job market paper)

Simposio de la Asociacion Espanola de Economia, Palma de Mallorca (Spain) - scheduled, December 11-13, 2014;

C. Ravetti

Global population growth, technology, and Malthusian constraints: A quantitative growth theoretic perspective

Seminar at INRA Paris, December 2014

B. Lanz

Multinational firms and the internationalization of green R&D

Observatoire Francais des Conjonctures Economiques, Sciences Po, Nice, December 2014

J. Noailly

7. Events

The Geneva Dialogues on Global Environmental Problems

The Geneva Dialogues lectures are a series of keynote speeches by leading academics bridging research and policy on a given theme. In spring 2014 the theme was 'The futures of International Environmental Governance'.

- Prof. Shiv Someshwar (Earth Institute, Columbia University), *Equity in Sustainable Development Practice*. April 9 2014

In the fall one speaker presented his work:

- Dr. Maximo Torero (International Food Policy Research Institute), *Global Environmental Change: Implications for Food Security and International Security*, to take place November 6, 2014

Metrics:

The Someshwar and Torero lectures each had approximately 45 attendees. Attendees are made up in equal number from the Institute's faculty and student body and from international organizations, including international NGOs. The purpose of inviting these lecturers, in addition to presenting an interesting subject with insight from their specialty, has been also to forge connections with CIES members in their field of expertise.

Other Lectures

- Prof. Margaret Young. Forests (University of Melbourne), *International Law and Experimentalist Governance: The Case of REDD*. April 29 2014. Organized with the Centre for Trade and Economic Integration (CTEI)
- Prof. M. Scott Taylor (University of Calgary). *Back to the Future of Green-Powered Technologies*. April 2, 2014.

There were 30 attendees for the Margaret Young lecture. The Scott Taylor lecture had 25 attendees.

Conferences, Symposiums and Workshops

- Diffusion, Innovation and Green Growth, Sinergia Workshop
January 2014 – Morzine France

The 3-year 'Diffusion, Innovation and Green Growth' project started on January 1, with a 2-day kick-off meeting including all partners from EPFL, ETHZ and LSE. Each research team focuses on a specific topic, economic modeling of growth and diffusion (ETHZ), analysis of growth and diffusion, with a focus on developed countries and innovation (LSE), analysis of growth and diffusion, with a focus on transfers of technology to developing countries

(IHEID) and policies for green growth (EPFL). Each partner presented their proposal for their respective sub project and received feedback from the other partners. Agreement was also reached on the specific research papers to be prepared and the next project workshop.

- IUCN 50th Anniversary Red List. Wildlife at Risk: What's at stake for Sustainable Development? June 12, 2014. Organized by IUCN and the French Mission.

Panelists included Prof. Liliana Andonova, Nicolas Hulot, the French President's Special Envoy for the Protection of the Planet, Christoph Graf, Vice-Deputy Director, Swiss Agency for Development and Cooperation (SDC), Peter Bakker, President of the World Business Council for Sustainable Development and Jean-Christophe Vié, Duputy-Directeur of IUCN's species programme. The event had approximately 300 attendees.

- Workshop on Transnational Climate Governance and Domestic Politics, Oxford UK. June 23-24, 2014.

Prof. Liliana Andonova and Prof. Thomas Hale, University of Oxford, co-organized a workshop around a special issue they are editing on Transnational Climate Change Governance. The two-day workshop took place June 23-24 and had ten contributing authors attend. By bringing together specialists in each area of TCG, the special issue aims to contribute to the broader field of research on transnational governance. It also seeks to provide a policy-relevant assessment of TCG. The workshop was co-sponsored by CIES and the University of Oxford.

- UNEP Policy Workshop on “Economics of Biodiversity and Ecosystem Services: Building Biodiversity and Ecosystem Services into National Policy”. September 20-21, 2014. Cambridge, UK.

CIES and BIOECON partners organized a two-day Training Workshop on behalf of UNEP on the subject of “Economics of Biodiversity and Ecosystem Services: Building Biodiversity and Ecosystem Services into National Policy” directly prior to the BIOECON conference. Lectures were given by senior professors in the field of resource economics from London School of Economics, ETH Zurich, Duke University to 25 government officials and policy advisors from developing countries.

- 16th Annual BIOECON Conference “Biodiversity, Ecosystem Services and Sustainability”, September 21-23, Cambridge UK.

CIES was a key partner and focal point in the organization of this year's annual BIOECON conference. The conference was held once again in Cambridge, UK on the theme “Biodiversity, Ecosystem Services and Sustainability”. Over 130 researchers attended from Europe, North America and Australia and 65 papers were presented on the subject of the economics of natural resource management. The conference was hosted by the London School of Economics and CIES and keynote lectures were delivered by Prof. Jim Salzman of Duke University, and Prof. Christian Gollier of Toulouse

School of Economics. This event was sponsored by UNEP, FEEM, CSIRO, IUCN, LSE, IIED and the Graduate Institute.

- Symposium on Global Land Use Patterns and Food Security: Issues and Evidence. September 20-21, Cambridge, UK.

CIES, in partnership with the Luc Hoffmann Institute (WWF) and the Grantham Research Institute on Climate Change and the Environment (LSE), convened a two-day symposium on Global Land Use Patterns and Food Security at King's College Cambridge on 20-21 September 2014 within the framework of its Sustainable Human Niche project, with financial support from the MAVA Foundation.

A broad range of researchers, including ecologists, agronomists, entomologists, and economists, discussed global population, land use trends and future food security. A central question considered by the group was the extent to which global aggregate land use and simplification has the potential to generate problems of increased hazards or increasing variability in agricultural production.

- Innovation, Diffusion and Green Growth - Sinergia Workshop, September 26, 2014

CIES held a workshop as part of the Sinergia project on 'Innovation, Diffusion and Green Growth'. The workshop brought together PhD students and researchers from CIES, as well as ETHZ, EPFL and LSE who are involved in the Sinergia project to present current work and share research ideas on green growth issues.

- Right to Food and Conflicts over Land Use Symposium. November 7, 2014. Geneva

In this one-day symposium co-organized by CIES and the Geneva Academy of International Humanitarian Law and Human Rights, a group of noted scholars consider the important range of issues raised by this subject, including land use scientists, agricultural economists, geographers, social scientists, and legal and human rights scholars. They examined the nature of the problem at both global (land use modeling) and local (case study) perspectives. They also reviewed some examples of the ways in which these conflicts are experienced by both global and local communities, and the ways in which they might be managed through domestic and international laws or intervention. This event is funded by the EC Commission in the framework of the FoodSecure project.

Seminar Course in Resource and Environmental Economics

In 2014, the PhD seminar series in Resource and Environmental Economics was co-organized with UNIGE 2014. The course's aim is to bring top scholars in Europe to CIES to give guest lectures on their recent research or research

in progress. There were 13 lectures this year with approximately 20-25 attendees per lecture.

Thursday, February 20

The interaction between user innovation and industry supply in the seed industry

Stéphane Lemarié, INRA Grenoble

Thursday, February 27

Growth and mitigation policies with uncertain climate damage

Alexandra Vinogradova ETH Zurich

Thursday, March 20

On partial cooperation in common property renewable resource oligopolies

Hassan Bencheekroun McGill University

Tuesday, April 1

The dynamic impact of unilateral environmental policies

David Hemous INSEAD Paris

Friday, April 11

Alternative and indefinitely repeated investments: Species choice and harvest age in forestry

Pierre Lasserre University of Quebec

Thursday, April 17

The Supply of non-renewable Resources

Julien Daubanes ETH Zurich

Thursday October 23

Does Supporting Passenger Railways reduce road traffic externalities?

Armin Schmutzler University of Zürich

Thursday October 30

Reciprocal Climate Negotiators: Balancing anger against even more anger

Karen Nyborg University of Oslo

Thursday November 13

Is there space for agreement on Climate Change? A non-parametric approach to policy evaluation

Simon Dietz Grantham Research Institute, LSE

Thursday November 20

Chief for a day: Elite Capture and Management Performance: Evidence from a field experiment in Sierra Leone

Erwin Bulte Wageningen University

Thursday November 27

Fiscal Implications of Climate Change Adaptation vs. Mitigation

Lint Barrage University of Maryland

Thursday December 4

Climate Tipping and Economic Growth: Precautionary saving and the social cost of carbon

Rick van der Ploeg University of Oxford

CIES Brown Bag Lunch Seminars

The Brown Bag lunch is a means for CIES researchers and external researchers to present and share research in progress. The series has also served as a way for CIES to promote itself within the Graduate Institute community. In 2014, 6 seminars were held, which were attended on average by 15-20 students and faculty.

Wednesday 5 March 2014

Explaining Government Choices for promoting Renewable Energy

Dr. Lena Schaffer, ETH Zurich

Wednesday 14 May 2014

Global Carbon Wealth: A different perspective on Carbon Emissions

Prof. Suren Erkman, Université de Lausanne

Tuesday 27 May, 2014

Climate Diplomacy: Persuasion in World Politics

Prof. Radoslav Dimitrov

University of Western Ontario, Canada

Thursday 18 September 2014

Renewable Energy in China: Challenges and Opportunities

Xuxuan Xie, Yongqiang Zhong and Richard Bridle

International Institute of Sustainable Development and China National Renewable Energy Centre

Tuesday 21 October 2014, 12:15 - 13:45

Shedding Light on Policy Diffusion: The Case of Incandescent Lightbulbs

Eirik Lindebjerg, United Nations Environment Programme

Wednesday 29 October 2014, 12:15 - 13:45

Climate Change: Challenges and Opportunities for Global Health

Prof. Jonathan Patz, Global Health Institute, University of Wisconsin, USA

Tuesday 18 November 2014, 12:15-13:45

Overcoming Barriers to Clean Energy Technology Diffusion: The Case of Geothermal Energy in Indonesia

Kathryn Chelminski, PhD candidate, CIES

8. Professional Training

International Trade Rules and the Green Economy in a Context of Sustainable Development and Poverty Eradication

Summer Programme, WTO, International Trade and Development

July 2014

Dr. Derek Eaton

Hot Issues on the International Agenda: Environment

Executive Master in International Negotiation and Policy-Making 2014 – 2015

October 2014

Dr. Derek Eaton

9. Policy impact

At the end of 2013, CIES became a knowledge partner of the Green Growth Knowledge Platform (GGKP), headquartered in Geneva and established jointly by UNEP, OECD, the World Bank and the Global Green Growth Institute. The GGKP now plays an instrumental role in diffusing the results of research on green growth to policy advisors within governments and international organizations. Through its international conference, GGKP engages senior decision makers and researchers from academia and elsewhere in the research-policy interface. CIES researchers play an active role in this initiative. Dr. Joëlle Noailly is a member of the GGKP's research committee on innovation and Dr. Derek Eaton is a member of the fiscal instruments committee.

CIES has started to list all economics related research papers on REPEC, the largest repository of research papers in economics online.

10. Relationship with International Geneva

Aside from the GGKP, which is an important part of the way CIES interacts with international Geneva, CIES has collaborated with organizations in International Geneva to promote dialogue and exchange on two important topics in 2014.

First, as described above, CIES partnered with IUCN, the French Mission and the Swiss Confederation to hold a panel discussion marking the 50th anniversary of the IUCN Red List on endangered species. The panel was opened by Julia Marton-Lefèvre and included Nicolas Hulot (French special ambassador on the environment), Peter Bakker (President, WBCSD) and Prof. Liliana Andonova.

Second, CIES and the Committee on Sustainable Energy at UNECE organized a panel discussion titled "Putting the Genie Back: 2 degrees is harder than you think". This took place as a side event to the biennial meetings of the UNECE Committee on Sustainable Energy and was attended

by delegations, members of the public, and also the IHEID student community. The event featured 7 panelists from energy and climate finance, including also Dr. Joëlle Noailly of CIES.

In addition, CIES actively supports the placement of students as interns in UNEP's Green Economy Initiative team at International Environment House.