



Annual Report 2013

Centre for International Environmental
Studies

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1. Summary overview of major accomplishments and developments

2013 has been a busy year for CIES. A new research programme on Innovation and Green Growth was launched in the fall. The programme has four new projects under it that are receiving funding worth 2.5 M CHF.

In December, CIES officially became a knowledge partner of the Green Growth Knowledge Platform, a new platform created by the OECD, UNEP, the World Bank and the Global Green Growth Institute. This will allow CIES to work with and collaborate with other knowledge partners in the field of Green Growth, and provide a means of disseminating research work to policy makers and experts in a range of organizations.

CIES has organised several lectures by high-profile speakers, including Achim Steiner, Executive Director of UNEP and Janez Potocnik, EU Commissioner for the Environment (the latter having been co-organized with Communications) among others. In total there were 30 academic lectures hosted by CIES in 2013.

Once again, CIES organised along with the London School of Economics the 15th annual BIOECON Conference in Cambridge, UK from September 18-20, 2013. The conference focused on frontier research issues in environmental and agricultural economics and included keynote lectures by Prof. Thomas Sterner (Gothenberg) and Prof. Robert Mendelsohn (Yale).

There have been changes in the Advisory Board to CIES, with the arrival of Josh Tewksbury, Director of the Luc Hoffmann Institute, and departure of Leo Johnson and Martin Beniston.

2. Staffing of the Centre

CIES has two Academic Directors, Tim Swanson and Liliana Andonova. Program Directors at the professorial level are Tim Swanson (Environment and Development Programme), Liliana Andonova (Climate Change), Marc Hufty (Biodiversity), Emily Meierding (Security) and Jorge Vinales (Environmental Governance). Jorge Vinales has left the Centre and has taken a position at the University of Cambridge. Other Program Directors include Derek Eaton (Food Security), Joelle Noailly (Innovation and Green Growth) and Bruno Lanz (Public Economics).

The Centre has two administrative staff with Derek Eaton, Executive Director overseeing the Centre and Kristine Kjeldsen serving to coordinate administrative activity.

In 2013 there were three research associates: Bruno Lanz, Joelle Noailly and Derek Eaton. Joelle Noailly's research is funded by the Marie Curie Programme from the European Commission and Bruno Lanz's research is funded by the MAVA Foundation. Derek Eaton's research work is funded by the European Commission.

There were 11 Research Assistants, all of whom are currently PhD students in economics, development or international relations. 7 of the Research Assistants were working on the maximum permitted half time basis on research projects.

There were no visiting fellows in 2013

3. Active, ongoing research projects

Biodiversity

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 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 realised in collaboration with the University of Bern and local partners.

Marc Hufty (main applicant)

Financed by SNF (ProDoc), 330'000 CHF

Starting date: Nov. 1st, 2011; Ending date: Oct. 31, 2014

Can small players make a difference? A multilevel governance assessment of the Swiss contribution to the establishment of an international regime on Biodiversity

Biodiversity is a fragmented domain. In contrast with issue-areas with strong guidance, the co-existence of multiple coordination mechanisms at all political levels is the rule. The understanding of this process and its consequences has been somewhat neglected in the literature. This project seeks to address this neglect by analysing the multilevel process of policy formation and norm-building, taking the case of Switzerland as a marker, with the Biosafety and Access and Benefit Sharing Protocols as case studies.

Marc Hufty, prof. IHEID, coordinator

Sonja Wälti, ass. Prof. Washington University, Senior researcher

Tobias Schulz, Swiss Federal Institute for Forest, Snow and Landscape Research
WSL, Birmensdorf, co-coordinator

Aniket Ghai, UNEP, senior researcher

Start: January 1, 2011

End: June 30, 2013

Funded by the Education and Research Secretariat (COST), CHF 163 860

Dynamics of Transcultural Management and Governance in Latin America

This graduate program 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, this graduate program 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 programs 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 competences in Switzerland, promotes excellence, and fosters the contacts with experts outside the country.

Main Applicant: Prof. Y. Sánchez (University of St. Gallen); Applicants: Profs. A. Helg (UNIGE), M. Hufty (IHEID) and C. Pernet (UNISG)

Marc Hufty

Financed by SNF (ProDoc), 451'000 CHF

Starting date: Nov. 1st, 2011; Ending date: Oct. 31, 2014

Climate Change

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).

Partners: Pontífica Universidad Católica de Perú; Institute of Management Sciences, Peshawar, Pakistan; Federal Institute WSL, Switzerland. Financed by the Swiss National Fund for Scientific Research

Marc Hufty, Professor IHEID

Morgan Scoville-Simonds, Research Assistant, PhD Candidate

Hameedullah Jamali, Research Assistant, PhD Candidate

Funded by the SNF, 3 years, CHF 405'000

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.

Tim Swanson, Prof. IHEID

Bruno Lanz, Research Associate

Derek Eaton, Executive Director

Arun Jacob, PhD Candidate, Economics and Research Assistant

Jules-Daniel Wurlod, PhD Candidate, Economics and Research Assistant

Funded by the MAVA Foundation, 3 years, CHF 1 Million
Competitive

Global IQ - Impact Quantifications of Global Change

This project is in line with the research program 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 should result into 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 Tim Swanson together with research assistant, Chiara Ravetti investigate the role of climate change management in the control of health impacts from air pollution in developing countries. A case study is being funded to investigate how health is related to pollution in Beijing, and the means by which pollution controls impact on health.

Tim Swanson, Professor IHEID

Chiara Ravetti, research assistant, PhD candidate, International Economics

Funded by EC-FP7, 3 years, 114'000 Euros
Competitive Process

Transnational Climate Change Governance

This project was jointly initiated by Harriett Bulkely, Michele Betsill and Liliana Andonova and for which Harriett Bulkely 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).

Climate Negotiations

This project was led by colleagues at the University in Zurich and supported by SNIS. Liliana Andonova participated as research partner. The project was completed with a conference held in Zurich and a special issue of the journal *Climate Policy* (2012), in which Prof. Andonova had published an article together with Assia Alexieva, the Research Assistant for that project (see publications).

Regional Integration Regimes

Liliana Andonova participated as a partner in this project led by Laszlo Bruszt (EUI) and Gerald McDermott. It resulted in the publication of an edited volume with Oxford University Press, in which Ioana Tuta and Liliana Andonova have published a chapter (see publications).

ACQWA

(Assessing Climate impacts on the Quantity and quality of WAter). This is a large-scale integrating project, managed by UNIGE, with over 100 researchers in 37 different groups representing 30 partners in 10 countries. Liliana Andonova participated as partner in this project along with Urs Luterbacher and Tim Swanson. The project was completed last year, whereby Andonova, Luterbacher and Swanson submitted an integrated report by the Graduate Institute team, in addition to working papers. The papers “Regional Disparities in Climate Vulnerability of Winter Tourism: The Case of the Swiss Canton of Valais” co-authored by Alain Schaub, PhD and Liliana Andonova and “Policy implications of climate variability on agriculture: Water management in the Po river basin, Italy” was co-authored by Tim Swanson and Martina Bozzola, PhD.

This project went from 2008-2013

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 globalisation 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 organisational 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 organisations 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, Professor IHEID

Manoela Assayag, PhD candidate, International Relations, Research Assistant

Funded by the SNF, 3 years, 173,200 CHF

Competitive Process

Innovation and Access to Technologies for Sustainable Development.

Liliana Andonova is currently involved in research of this initiative at the Sustainability Science Program at the Kennedy School of Governance, Harvard University.

The Domestic Politics of Transnational Climate Governance.

Liliana 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 plan to convene a workshop for preparing a special journal issue on the topic in May/early June, they plan the workshop to be held at Oxford University, co-sponsored by Oxford and CIES.

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

In 2011 CIES participated in an EU FP7 proposal joint 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.

Tim Swanson, Professor IHEID-CIES
Derek Eaton, Executive Director, CIES
Jules-David Wurlod, Research Assistant
Martina Bozzola, Research Assistant
Katia Covarrubias, Research Assistant

Funded by the European Commission (FP7), 2.5 years, 400,000 CHF
Competitive Process

Innovation and Green Growth

EU Marie Curie Fellowship Program - 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.

Joelle Noailly, Research Fellow
Funded by European Commission (FP7), 2 years, 230,000 EUR

Security

Management of Transboundary Oil Fields

Professor Meierding and research assistant Joanne Richards have collected GIS data on transboundary oil fields and historical information on international border evolution, to see how the presence of petroleum resources has impacted boundary drawing and management. The initial results of this research were presented at the International Studies Association annual conference in April 2012.

Emily Meierding, Professor IHEID
Joanne Richards, Research Assistant, PhD Candidate Political Science.
Funded by CIES and IHEID

4. Other active, ongoing projects

None

5. Proposals submitted during 2013

Environmental Governance

COST Action: Innovations in Climate Governance: Sources, Patterns and Effects (INOGOV);

COST proposal reference oc-2013-1-15182. Submitted by Lead investigators Andrew Jordan (UK) and David Huitema (Netherlands), Liliana Andonova participates as Swiss Team Partner together with colleagues from the University of Zurich and ETH. This research action was just approved by the EU, Liliana Andonova participates in the Management Committee as one of the Swiss representatives. The specific research agenda under the action is still to be developed.

Innovation, Diffusion and Green Growth

It is increasingly recognized that the key to the solution of many of the most intractable problems of sustainable development at the global level concern the generation of appropriate technologies, and their diffusion across the developing world. As we see with the current negotiations on the climate change convention (Doha December 2012), the key to the solution of this problem is reconciling the innovation side of this problem (creating new technologies) with the diffusion side (adoption of existing technologies). The goal of this project is to investigate: a) the problem of green growth, b) the empirical evidence regarding how innovation and diffusion operate, and c) the policies that might aid in enhancing innovation, diffusion and sustainability.

The teams involved in the project (ETH, LSE, IHEID, and EPFL) involve leaders in the field. The four teams will focus on different perspectives of the problem and work with complementary methodologies. Combining the four teams will create the synergies to establish a strong group working on these issues in Switzerland – a Swiss Network on the Economics of Green Growth. The main topics analyzed by the teams are: 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 and adoption/adaptation (IHEID); 4) policies for enhancing both innovation and diffusion for green growth (EPFL).

The combination of the studies will provide insights on how growth and diffusion interact across a wide part of the economy and a broad part of the world. But it is the combination of all of the various methodologies that makes the project unique and will enable the teams to make innovative contributions to the analysis of the problem – working in theory, empirics, and policy will create the bridge by which theory, policy and practice may be discussed. The project will create a valuable research environment for young researchers, where students will benefit from the interaction with other institutions. The project will focus on three annual joint seminars and workshops to foster these interactions, and to provide a forum for discussion of the results. Ultimately the goal is to work with this network, and with policy partners in Geneva (UNEP, WIPO and OECD) in order to develop a contribution to the GGKP.

Coordinating Partner: IHEID-Tim Swanson and Joelle Noailly
Scientific Partners-ETH, EPFL, LSE

Status: Approved

Funded by FNS under the Sinergia Programme, 3 years, CHF 1.5 Million

Diffusion of Clean Energy Technology for a Green Economy in Developing Countries

This interdisciplinary project seeks to establish the economic and policy conditions likely to enable the diffusion of affordable clean energy technologies in developing contexts, and more specifically the role of domestic policy and international collaboration. The project will build a database on diffusion patterns of low-cost clean energy technologies across developing countries and include a range of indicators

for policy and cooperation initiatives. Case studies will shed light on the pathways and extent to which specific policies and international initiatives encourage clean energy technology diffusion. The findings will help address theoretical and empirical knowledge gaps on green growth and provide policy inputs among key developing partners of UNEP's Green Economy Advisory Service. The research will involve cross-institutional and interdisciplinary collaboration with political science, economics, public policy, and technical experts from UNEP. Such knowledge is essential for addressing global challenges of energy poverty, climate change, and green growth.

Liliana Andonova in collaboration with Joelle Noailly, IHEID, Co-applicant: UNEP
2 years, amount requested: 300,000 CHF

Status: Approved

Funding provided by SNIS: 259,525 CHF. Project starts 1 February 2014;
Completion: 31 January 2016.

COSTASSESS-The Costs of adopting Clean Energy Technologies in South Africa: The costs of adopting technology restrictions

The proposed research is intended to assess 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.

This proposal focuses on a distinct question. Its primary 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.

Tim Swanson in collaboration with the University of Capetown

Status: Approved

Funding from SNF: 229,320 CHF, 3 year

CC-Smart Farmers

Advance the understanding on how farmers can deploy different technologies and other instruments (e.g. insurance) as resilience strategies to adapt to incremental climate change (CC) and increased climate variability, with a time horizon up to 2050 through an econometric assessment of farmer adaptation strategies and risk management.

Partners:

IHEID-CIES (coordinator), UNIGE, Von Thünen Institute (Germany), National Institute of Agricultural Economics (Italy), Politecnico di Milano (Italy), Mediterranean Agronomic Institute of Bari (Italy), University of Naples, Cyprus University of Technology

Funding Body: European Union Joint Research Programming Initiative on Agriculture, Food Security and Climate Change (FACCE-JPI) Call on "Climate Smart Agriculture"

Amount requested: EUR 733,000 (IHEID: 100,000)
Timeframe: Sep 2014-Aug 2016

Status: Pre-proposal submitted December 2013 and approved; full proposal due in April 2014.

FINESSE

The goal of FINESSE is to develop and test a framework for a rigorous multi-scale exploration of land use strategies aimed at reconciling food production and other biodiversity-based ecosystem services. The project will consider the compatibility of food production and harnessing these services at multiple scales. FINESSE adopts a highly interdisciplinary approach which will bring together agronomists, ecologists, geographers, conservation biologists and economists.

Partners:

INRA (France; coordinator), Bern University Institute of Ecology and Evolution, Bioforsk (Norway), Humboldt University Berlin (Germany), Centre of Conservation Science (France), Socioecological System Lab Madrid (Spain), Vienna University Institute of Social Ecology (Austria), Wageningen University (Netherlands)

Funding Body: European Union Joint Research Programming Initiative on Agriculture, Food Security and Climate Change (FACCE-JPI) and BiodivERsA Call on "Promoting synergies and reducing trade-offs between food supply, biodiversity and ecosystem services"

Amount requested: EUR 100,000 (IHEID). **Timeframe:** Sep 2014-Aug 2016

Status: Pre-proposal submitted December 2013. Swiss participation not approved by SNF NRP68 Steering Committee.

6. Publications

(All publications are purely academic, unless indicated by an * for those that are also policy-oriented).

Books, Articles, Edited Volumes

Andonova, Liliana. 2014 (forthcoming, in production). *Boomerangs to Partnerships? Explaining State Participation in Transnational Partnerships for Sustainability*. Comparative Political Studies 2014, v. 47, issue ¾

Andonova, Liliana and Ioana Tuta. 2014 (forthcoming, in production). *Transnational Networks and Paths to EU Environmental Compliance: Evidence from New Member States*. Journal of Common Market Studies.

Bulkeley, Harriet, Andonova, Liliana et al. (forthcoming 2014 in production). *Transnational Climate Change Governance*. Cambridge University Press.

Andonova, Liliana and Ioana Tuta. (Forthcoming 2014). *Greener Together? Transnational Networks and Environmental Protection in the Enlarged EU*. In Laszlo Bruszt and Gerald McDermott, eds. *Assembling Level Playing Fields: Transnational Regulatory Integration and Institutional Change in Emerging Markets*. Oxford University Press.

Andonova, Liliana and Manoela Assayag. *Partnerships*. In Morin, Jean-Frédéric and Amandine Orsini, eds. *Essential Concepts of Global Environmental Governance*. Forthcoming 2015, Routledge.

Andonova, Liliana and Assia Alexieva. *Continuity and change in Russia's climate negotiations position and strategy*. Climate Policy 12:5, 614-629, 2012.

Eaton, Derek. 2013. "Technology and Innovation for a Green Economy." *Review of European Community & International Environmental Law* 22 (1): 62–67. doi:10.1111/reel.12020.

Eaton, Derek, and Gregory Graff. 2013. "The Dynamic IP System in Crop Genetics and Biotechnology." In *Handbook on Agriculture, Biotechnology and Development*, edited by Stuart Smyth, Peter W. B Phillips, and David Castle. Cheltenham, UK: Edward Elgar.

*Eaton, D. et al. 2013. "Food Security and Biodiversity: Challenges, Conflicts and Options", Policy Brief for UNEP based on Expert Panel Session at BIOECON Conference, September 19, 2013.

Hufty, M. Tobias Schulz, and Maurice Tschopp. *The Role of Switzerland in the Nagoya Protocol Negotiation*. Global Governance of Genetic Resources: Access and Benefit Sharing after the Nagoya Protocol, edited by Sebastian Oberthür and Kristin Rosendal

Larsen, P.B., Tran, C.T. Gagnon, S. Hufty, M. *L'échec des politiques de régulation du commerce des espèces sauvages au Viêt Nam après la libéralisation*. In: Ferrari, O. and Bourg, D. (eds): *Politiques environnementales en Asie*. (in print)

Hufty, M., *Indigenous and local people*, in: Orsini, A. and Morin J.-F. (eds). Companion to Global Environmental Governance. Routledge/Earthscan. 2014. (in print)

Gagnon, S., Hufty, M. *The Political Ecology of Participatory Conservation in the Yungas Biosphere Reserve, Argentina*. (submitted to Journal of Political Ecology, under revision)

Meierding, E. *Climate Change and Conflict: Avoiding Small talk about the Weather*. International Studies Review Volume 15, Issue 2, pages 185–203, June 2013

Meierding, E. *review of The Power Surge, by Michael Levi*. International Politics Reviews (2013) 1, 117–131. doi:10.1057/ipr.2013.21

Swanson, T. and B. Groom. *Regulating Global Biodiversity: What is the Problem?* In Nature in the Balance: The economics of Biodiversity. Eds. D. Helm and C. Hepburn. Oxford University Press.

Swanson, T. and M. Bozzola. (In Press). *Policy implications of climate variability on agriculture: Water management in the Po river basin, Italy*. Environmental Science and Policy.

Vinuales, J. Ed. *The Rio Declaration on Environment and Development. A Commentary* (Oxford University Press, forthcoming 2014).

Vinuales, J. *Extraterritorial Tactics of Environmental Regulation*, in Collected courses of the Academy of European Law (Oxford University Press, forthcoming 2014).

Research Papers

Noailly, J. and V. Shestalova. *Knowledge Spillovers from Renewable energy Technologies, Lessons from patent citations*. CIES Research Paper no. 22.

Bommier, A., Lanz, B. and Zuber, S. *Models-as-usual for Unusual Risks? On the value of Catastrophic Climate Change*. CIES Research Paper no. 21.

Noailly, J. and R. Smeets. *Directing Technical Change from Fossil-Fuel to Renewable Energy Innovation: An Empirical Application using firm-level Patent Data*. CPB Research Paper

Eaton, D. *Trade and Intellectual Property Rights in the Agricultural Seed Sector*. CIES Research Paper no. 20.

Eaton, D., *Innovation and IPRs for Agricultural crop varieties as Intermediate Goods*. CIES Research Paper no. 19

Swanson, T. and S. Larcom. *Documenting legal dissonance: regulation of (and by) payback killing in Papua New Guinea*. Research Paper, University of Cambridge, 2013.

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 2013 the theme was 'Futures of International Environmental Governance' and included two speakers:

- Philippe Sands, Professor of Law, University of London. *The Future of International Environmental Law*. March 6th 2013,
- Achim Steiner, Executive Director, United Nations Environment Programme, *Sustainable Development Post Rio+20: In search of a shared paradigm in a divided world*. May 8, 2013,

The theme for the 2013-14 academic year is 'Paths to Green Economy and Sustainability'. In the fall two speakers presented their work:

- Carlos Correa, Director of Center for Interdisciplinary Studies on Industrial Property, Faculty of Law, University of Buenos Aires. *Innovation and Technology Transfer of Environmentally Sound Technologies*. October 9, 2013,
- Robert Mendelsohn, Professor of Economics, Yale School of Forestry and Environmental Studies, *Balancing Costs and Benefits- Solving the Climate Change Problem*. November 18, 2013.

Metrics:

To date the Geneva Dialogues lectures continues to average approximately 60 attendees per lecture, with the exception of the lecture of Achim Steiner, which drew 170 attendees to the event. 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 them in their field of expertise. We have been successful in achieving this, for example Robert Mendelsohn will collaborate with some of CIES PhD students on a research project.

Other Lectures

- Janez Potocnik, European Commissioner for the Environment. *Towards a Greener Future- Are we moving forward?* April 17.
- Rene Orellana, Ambassador and Chief Negotiator of the Plurinational State of Bolivia and the UN-FCCC. *Bolivian Strategy of Climate Change Adaptation and Mitigation*. February 26.

There were 53 attendees for the Janez Potocnik lecture. The Rene Orellana had 25 attendees (at capacity). Both events had a mixed audience of students and members of the international community.

Advanced Seminar Course in Environmental and Resource Economics

Prof. Cees Withagen, VU University, Amsterdam . *Growth, Renewables and the Optimal Carbon Tax*. 28 February

Prof Timo Goeschl, University of Heidelberg. *The Intergenerational Transfer of Solar Radiation Management Technologies and Atmospheric Carbon Stocks*. 14 March

Dr. Daan van Soest, VU Amsterdam. *Can informational rents ever be avoided? Optimal conservation programs, endogenous investments, and heterogeneity in land owner preferences*. 11 April

Dr. Aude Pommeret University of Haute Savoie. *Technological vs Ecological switch and the optimal control of pollution*. May 23

Assistant Prof. Grischa Perino, University of Hamburg. *Why Campaigns for individual climate actions can increase greenhouse gas emissions*. 10 October.

Prof. Anna Alberini, University of Maryland. *Does the Swiss Car Market reward Fuel Efficient Cars? Evidence from the Hedonic Pricing Approach and a regression discontinuity design*. 17 October.

Assistant Prof. Ralph Winkler, University of Bern. *Strategic delegation and Non-Cooperative International Permit Markets*. 24 October.

Dr. Corrado Di Maria, University of East Anglia. *Market Deregulation, Risk and Contract Choice in Coal-fired Electricity Generation*. 31 October.

Prof. Robert Mendelsohn, Yale School of Forestry and Environmental Studies. *Economics of Adaptation*. 19 November.

Dr. Charles Palmer, London School of Economics. *Pollution and the City*. 21 November.

Stefano Carattini, PhD candidate, HEG/University of Barcelona. *Unconventional Determinants of Greenhouse Gas Emissions: The Role of Trust*. 28 November.

Assistant Prof. Beat Hinterman, University of Basel. *The value of Public Investments to support Bicycling*. 5 December.

Laura Bakkensen, PhD candidate, Yale School of Forestry and Environmental Studies. *Natural Disasters and Adaptation: Evidence from Global Tropical Cyclone Damages and Fatalities*. 12 December.

This PhD seminar series in Natural Resources and Environmental Economics finished its first full year in spring 2013 and continued on into the 2013-2014 academic year. 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. A majority of the seminars took place at IHEID, with some taking place at University of Geneva. There were 12 lectures that took place in the spring term of 2013 and fall term of 2013, each attracting approximately 10-15 PhD level economics students per lecture.

CIES Brown Bag Lunch Seminars

The Brown Bag lunch series took place again spring term of 2013 and subsequent fall term as a means for CIES researchers, including both students and faculty, 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 2013, 10 seminars were held, which were attended on average by 10-15 students and faculty.

Emily Meierding. *Uranium and Internal Conflict: A question of value*. February 26.

Morgan Scoville-Simonds, PhD candidate. *Adapting to Adaptation in Peru: Preliminary Results*. March 12.

Hameedullah Jamali, PhD candidate. *Adapting to Adaptation in Pakistan: Preliminary Project Results*. March 26.

Vanessa Boanada-Fuchs, PhD Candidate and Research Assistant. *The right to previous, free and informed consultation in practice: Law, development and mistrust in the Brazilian Amazon*. April 9.

Alain Schaub, PhD Candidate. *Winter tourism and climate change: The socio-economic and climate-related impacts of climate change on winter tourism in the Valais*. April 23.

Chiara Ravetti, PhD candidate. *Who can avoid the damages of air pollution? Averting Behaviour and health in Beijing*. April 30.

Martina Bozzola, PhD candidate. *Impact of three movements on farmers' investment choice*. May 7.

Prof. Marc Hufty. *Roads, frontiers and the ecological challenge in the Amazon*. May 21.

Dr. Annalisa Zezza, Kennedy School Of Government, Harvard University. *Certification On Sustainability In The Biofuel Sector: A Case Study On Brazilian Ethanol*. October 16.

Dr. Denis Ruysschaert, Université Toulouse-II Le Mirail, Ecole doctorale du Centre d'Etude et de Recherche Travail, Organisation, Pouvoir (CERTOP). *Global Voluntary Standards: Are They Effective For Reaching Environmental Goals? The Case Of The Roundtable On Sustainable Palm-Oil (Rspo)*. November 30.

Conferences and Symposiums

(1) The Rio Declaration on Environment and Development: Assessing its impact after 20 years. October 4-5. Organised by Jorge Vinuales.

The Rio Declaration on Environment and Development was a public event which served to promote work on a book Jorge Vinuales is editing. The event had all contributing authors attend and present their work to one another. It was an excellent opportunity to obtain critical feedback from co-authors and the public on material being drafted for the book. It will be published in 2014 by Oxford University Press (J. E. Viñuales (ed.), *The Rio Declaration on Environment and Development. A Commentary*, Oxford Commentaries on International Law. The event had 25 attendees which were a mix of students and members of the international community. It was funded by SNF.

(2) 15th Annual BIOECON Conference “Conservation and Development: Exploring Conflicts and Challenges”, September 18-20, Cambridge UK.

CIES helped organise this year's annual BIOECON conference. Organisers are rotated on a yearly/bi-yearly basis. The conference was held once again in Cambridge, UK on the theme “Conservation and Development-Exploring Conflicts and Challenges”. Nearly 80 researchers attended from Europe, North America and Australia and 70 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 Robert Mendelsohn of Yale University, and Prof Thomas Sterner of University of Gothenburg. This event was sponsored by UNEP, FEEM, CSIRO, IUCN, EIB and the Graduate Institute

8. Professional Training

Global Public Goods: Current Features and Governance Challenges *Prof. Liliana B. Andonova* in the Summer Programme on International Affairs and Multilateral Governance. June 24, 2013. IHEID

“Green Economy: A New Paradigm for Sustainable Development”, Dr. Derek Eaton in the Course on the Evolving Multilateral System: International Geneva Policy Debates (for Swiss Government), 22 May 2013.

“Hot Issues on the International Agenda: Environment”, Dr. Derek Eaton in the Executive Education Course on International Negotiation and Policy-Making, 5 October 2013.

“International Trade Rules and the Green Economy”, Dr. Derek Eaton in the Customized Training Programme for Officials from Taiwan on Bilateral and Multilateral Trade Agreements Negotiation and Dispute Settlement, 27 November 2013.

“Trade as a Channel of Diffusion of Green Technologies”, Dr. Joelle Noailly in the Customized Training Programme for Officials from Taiwan on Bilateral and Multilateral Trade Agreements Negotiation and Dispute Settlement, 27 November 2013.

9. Public impact

CIES has recently joined the Green Growth Knowledge Platform in December as a Knowledge Partner. The Green Growth Knowledge Platform is an initiative of the

World Bank, Global Green Growth Institute (GGGI), the OECD and UNEP, which encourages collaboration and world class research in order to identify major knowledge gaps in green growth theory and practice. This partnership affords CIES the opportunity to collaborate with other knowledge partners on research in Green Growth. Dr Joelle Noailly, Director of the CIES research programme on “Innovation and Green Growth” has joined the team of experts on the GGKP Innovation Committee and will work to promote collaboration on research on green innovation issues. Derek Eaton has joined the team of experts on the Fiscal Instruments research committee. Membership in the GGKP will allow CIES to work with and collaborate with other knowledge partners in the field of Green Growth, and provide a means of disseminating research work to policy makers and experts in a range of organizations.

10. Relationship with International Geneva

The Geneva Dialogues lectures on International Environmental Issues continue to be an excellent arena for high quality academic lectures to be given to the international community.

CIES continues to maintain a good relationship with the Economics department at the University of Geneva, which is manifested by the Joint-Natural Resource Seminar Series presented by both Institutions. There has been fruitful collaboration between both institutes, for example research papers co-authored by Research Assistants at CIES and Professors at the University of Geneva, and joint collaboration on the project *Diffusion of Clean Energy Technology for a Green Economy in Developing Countries* funded by SNIS.

CIES is currently investigating the possibility of collaborating with researchers from the Luc Hoffmann Institute by offering them post-doc fellow positions.