

Annual Report 2012

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1. The Centre

The Centre for International Environmental Studies 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.

The Centre operates through regular activities (Geneva Dialogues, symposiums and international workshops) and also through ongoing research projects and programmes in the area of climate change, biodiversity, water, security, environmental governance and environment & development.

The Centre also hosts regular research seminars and brown bag lunches within the fields of political science, economics and law – looking at problems related to the environment.

2. Support and Partnerships

CIES has developed links with many organisations that operate on the international environmental scene, both governmental and academic. It works closely with the United Nations Environment Programme (UNEP) and with the International Union for Conservation of Nature (IUCN). CIES has developed partnerships with the most important research institute in environmental economics – the Fondazione ENI Enrico Mattei (FEEM), where the Professor Swanson is an academic fellow. Professor Andonova is a visiting fellow at Sustainability Science Program of the Center for Business and Government at Harvard University, and has spent the semester of 2011-2012 in residence. Professor Vinuales also undertook a two-week residency at Harvard Law School in February at the invitation of Harvard Graduate School.

The CIES recognises further the generous support of the Graduate Institute, the Hoffmann Foundation and the Pictet Bank. CIES research has been funded by the MAVA Foundation, Swiss National Science Foundation (FNS), the Swiss Network for International Studies and the European Commission.

3. Organizational Structure

Advisory Board

The Advisory Board is comprised of experts drawn from a range of sectors from Switzerland and across Europe. The board provides high-level guidance and

strategy for the Centre. Members are appointed to two-year positions. In 2012, the Board consisted of

André Hoffmann, President, Hoffman Foundation, Chair of the Board

Nicolas Pictet, Partner, Banque Pictet & Cie; Chairman, Swiss Private Bankers Association

Claude Martin, Board Member, the International Institute for Sustainable Development and former Director General of WWF International

Martin Beniston, Professor, Institute for Environmental Science, University of Geneva

José Romero, Head of Section, International Affairs Division, Federal Department of the Environment, Transport, Energy and Communications, Federal Office for the Environment, Confederation of Switzerland

Leo Johnson, Co-Founder of Sustainable Finance Ltd, UK

Directorate

The Centre is headed by two academic co-directors, Professor Timothy Swanson and Professor Liliana Andonova. Professor Swanson is André Hoffmann Chair of Environmental Economics, previously Chair of Law and Economics at University College London. His expertise includes biodiversity, conservation, and environmental policies and law. He is responsible for the CIES programmes Biodiversity, Water and Environment and Development. Professor Liliana Andonova is Head of the Department of Political Science, previously Jean Monnet Fellow at the European University Institute and Giorgio Ruffolo Fellow in Sustainability Science at Harvard University. She is responsible for the programme Climate Change. Her current research focuses on institutional change and public-private partnerships, European integration, transnational governance, and climate cooperation.

The Centre's operations are managed since February 2012 by the Executive Director, Derek Eaton. He worked previously at UNEP in its Economics and Trade Branch, and prior to this at LEI within Wageningen University as a researcher.

Programme Directors

Research at CIES is organized under a range of thematic programmes, indicated below in *italics*.

Tim Swanson, *Environment and Development*, and Co-Director of CIES, Professor, International Economics and André Hoffmann Chair of Environmental Economics

Liliana Andonova, *Climate Change*, and Co-Director of the CIES. Professor, Political Science

Jorge Viñuales, *Environmental Governance*, Assistant Professor, International Law, and Pictet Chair in International Environmental Law. He was previously a full-time practitioner specialising first in mergers and acquisitions and then in

international arbitration. His research currently focuses on the interface between environment and investment.

Emily Meierding, *Security*, Assistant Professor International Relations and Political Science, and was previously a pre-doctoral fellow at the Centre for International Security and Cooperation (CISAC) at Stanford University. Her fields of expertise are Armed Conflict, Territorial Disputes and Energy.

Marc Hufty, *Biodiversity*, Professor for Development Studies. His current research activities focus on multi-level governance processes applied to biodiversity conservation. He has taught and conducted field research in Argentina, Bolivia, Peru, Chile, Nicaragua, Madagascar and South Africa.

Based on successful financing of major research projects, CIES will create two new programmes in 2013 on Food Security, to be headed by Derek Eaton, and on Innovation, to be headed by Joelle Noailly.

Associated Faculty

Urs Luterbacher is Emeritus Professor, International Relations and Political Science. His areas of expertise include climate change, natural disasters and energy.

Research Associates

Joelle Noailly, PhD joined CIES on a part-time basis working on the Biodiversity Review project and leading the establishment of a new research programme on innovation. She worked previously at the Centre for Economic Policy Analysis in the Netherlands on environmental regulation and innovation.

Visiting Fellows in 2012

Nathalie Berny, Assistant Professor, Sciences Po Bordeaux, France

Katia Marzall, PhD, Ministry of Agriculture, Brazil

Research Assistants in 2012

(Respective projects in parenthesis)

Manoela Assayag, International Relations/Political Science (Governance Entrepreneurs)

Vanessa Boanada, Development (Transgela)

Martina Bozzola, Environmental Economics (ACQWA)

Hameed Jamali, Development (ADAPT²)

Sebastian Justiniano, International Law (SWIC)

Simon Neumueller (Biodiversity Review)

Chiara Ravetti, Environmental Economics (Global IQ)

Alain Schaub, International Relations/Political Science (ACQWA)

Morgan Scoville-Simonds, Development (ADAPT²)

Jules-Daniel Wurlod, Environmental Economics (FoodSecure)

Zacharias Ziegelhoefer Development Economics (Biodiversity Review).

Staff

Kristine Kjeldsen commenced her position as Administrative Assistant in April. Carmen Bauer, Administrative Director resigned from CIES in February to accept a new position at the University of Ottawa.

4. Research Projects submitted in 2012

(By research programme)

Biodiversity

A Sustainable Human Niche? Managing Global Land Use

Status: Approved

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

Derek Eaton, Executive Director

Joelle Noailly, Research Fellow

Simon Neumueller, PhD Candidate, Economics and Research Assistant

Zacharias Ziegelhoefer, PhD Candidate, Economics and Research Assistant

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

Environment and Development

Cultural Negotiations: Asymmetries in the TransArea

Status: Approved

This Research project (associated with the Swiss Graduate School on Latin America) examines in-depth the transcultural interactions taking place in the Latin American region, approached as TransArea. Asymmetry and cultural negotiation are central concepts of this Module, as we endeavor to set a counterpoint to the sometimes idealising and hierarchy-flattening attitudes in notions such as transculturality and transnationality. Power asymmetries stubbornly maintain themselves in culture contact situations. The dissertation projects aspire to shed more light on the processes in contact situations which always entail negotiating cultural affiliations of the self and the other. While the process of transculturation allows for preserving a good portion of one's cultural autonomy it does not take place in a power vacuum. The associated researchers will concentrate on phenomena of diaspora, of transnational organization, and cultural exchanges within the plurinational states to flesh out the asymmetries in these settings. The phenomena considered include the interactions of indigenous and rural communities with state as well as non-state actors in environmental conflicts, in interpretations of new legal norms, and in transnational mobilisations. Main Applicant: Prof. Y. Sánchez (University of St. Gallen); Applicants: Profs. M. Hufty (IHEID) and C. Pernet (UNISG), Dr. S. Rist (UNIBE).

Marc Hufty, Prof. IHEID, applicant
Financed by the SNF (ProDoc), CHF 535'548

Starting date: Nov. 1st, 2012; Ending date: Oct. 31, 2015

Environmental Governance

Empowering Indigenous CSOs to Improve Environmental Governance and Compliance at the Local Level in Bulgaria: Introducing a Regional Sustainable Environment Index

Status: Pending

The project will strengthen the democratic (participatory) governance of the environment in Bulgaria, thereby leading to a more sustainable development in the country, utilising both top-down (i.e. governance) and bottom-up (i.e. community) approaches. It explores and exposes the link between regional inequality and environmental sustainability in an effort to infuse EU environmental norms with local meaning. The main value-added outcomes are: (a) the creation of a monitoring mechanism and an early warning system for environmental sustainability that allow CSOs and governments (local and national) to track variability in environmental performance, adapt, and develop timely responses; and (b) the training of local CSOs to use these tools to enhance civic participation

into decision-making, and to provide a necessary transformation of EU environmental visions into locally meaningful principles and operational norms.

Liliana Andonova, Prof. IHEID, Co-applicant with ARC Fund, Amount requested 331,598.65 BGN, (211,000 CHF) 2.5 years

Innovation and Green Growth

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

Status: Approved (also approved by SNF under Marie Heim-Vögtlin Fellowship programme)

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

Innovation, Diffusion and Green Growth

Status: Pending

The recent Rio Plus 20 Meeting held in Rio de Janeiro in June 2012 included the “Green Economy” as one of its two main pillars of activity. After conclusion of that meeting, a new academic centre of excellence – the Green Growth Knowledge Platform (GGKP) – soon to be established in Geneva was inaugurated by a consortium (OECD, World Bank, UNEP) for purposes of helping to inform the world on how innovation might help in the pursuit of sustainability. 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. 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.

Tim Swanson, Prof. IHEID, Co-applicants: IHEID, ETH, EPFL and LSE
3 years, amount requested for IHEID 705,000.00 CHF, Swiss National Fonds in December 2012.

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

Status: Pending

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, SNIS

Security

INNOvative social sciences approaches for a Secure european Energy Transition (INNOSET)

Status: Not approved

The INNOSET project will produce innovative social science approaches to Energy Security. The research will in particular address social, economic, (geo)-political, technological and environmental challenges related to Energy Security and propose coherent new innovative policies and strategies to improve the transition towards a more sustainable, secure, competitive and affordable low-carbon energy system. By this comprehensive social science approach, INNOSET has the ambition to become a forerunner of the “next generation of energy security research”.

Submitted by Professor Jorge Vinueles (with Prof. Giacomo and CCDP, CTEI)

Coordinating Partner: Centre for European Policy Studies, Belgium, Amount requested 2.5 million Euro, (122,533 Euro for IHEID), 3 years

5. Ongoing Research Projects

(By research programme)

Biodiversity

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

Funded by the Education and Research Secretariat (COST), 3 years (2011-2013), 163,660 CHF

Climate Change

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

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

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, Professor IHEID

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

Hameedullah Jamali, Research Assistant, PhD Candidate Development Studies

Funded by the Swiss National Fund for Scientific Research, 3 years, 405'000 CHF.

Environment and Development

Global IQ - Impact Quantifications of Global Change

The 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, describe the possible consequences of climate changes and identify 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 his 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

Environmental Governance

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

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 changes? How can the recent theoretical developments and empirical observation of governance, transculturality, citizenship and environmental changes account for these situations? These questions will be answered by the applicants' own 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 (<http://www.cls.unisg.ch/es-ES/ProDoc.aspx>), 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

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 emphasise 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 Swiss National Fund of Scientific Research, 2 years, 91,000 CHF

Food Security

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

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

Security

Management of Transboundary Oil Fields

Professor Meierding and her 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

Water

ACQWA - Assessing Climate impacts on the Quantity and Quality of Water

CIES committed to continue the work on this EU FP7 project which started in 2008. The project examined the adaptation of governance systems to climate shocks, examining case studies in the Alps, Latin America and Central Asia. Prof. Andonova was supervising work on the impacts of climate on water resources available to the tourism sector, while Prof. Swanson was supervising work on the role of integrated decision making in dealing with climate shocks.

Liliana Andonova, Professor IHEID

Tim Swanson, Professor IHEID

Alain Schaub, PhD Candidate, Political Science

Martina Bozzola, PhD Candidate, International Economics

Funded by the European Commission (FP7) 5 years, 292'000 Euros

6. Publications

Books

Vinuales, J. *Foreign Investment and the Environment in International Law*. Cambridge University Press – Cambridge Studies in International and Comparative Law, 2012

Vinuales, J. 'Extraterritorial Tactics: Interactions among Human Rights, Environment, Trade and Investment in International Law', in *Collected courses of the Academy of European Law*. Oxford: Oxford University Press, forthcoming 2014.

Vinuales, J. *International Environmental Law: A Modern Introduction*. Cambridge University Press, on contract, November 2013. A French version is forthcoming with Bruylant: *Introduction au droit international de l'environnement*. Brussels: Bruylant, on contract, forthcoming November 2013 (with P.-M. Dupuy).

Edited Volumes

Vinuales, J., P.-M. Dupuy. *Harnessing Foreign Investment to Promote Environmental Protection*. Cambridge: Cambridge University Press, forthcoming March 2013

Vinuales, J., L. Boisson de Chazournes and M. G. Kohen. *Diplomatic and Judicial Means of Dispute Settlement: Assessing Interactions*. Leiden: Martinus Nijhoff, forthcoming November 2012 .

Vinuales, J. *The Rio Declaration on Environment and Development. A Commentary.* (forthcoming 2014) under review for the Oxford Commentaries on International Law Series.

Vinuales, J., Z. Douglas and J. Pauwelyn. *The Conceptual Foundations of International Investment Law: Bridging Theory into Practice.* Forthcoming 2013 under review with Oxford University Press.

Vinuales, J. *Measuring Progress in Global Environmental Governance: A Conceptual Chart.* Guest edited issue of the *Review of European Community and International Environmental Law – RECIEL* (Wiley), volume 22, 2013, issue 1.

Vinuales, J., D. Alland, V. Chetail and O. de Frouville. *Unity and Diversity of International Law. Essays in Honour of Professor Pierre-Marie Dupuy / Unité et diversité du droit international. Mélanges en l'honneur du professeur Pierre-Marie Dupuy.* Leiden : Martinus Nijhoff, on contract, forthcoming 2013.

Viñuales, J. *Foreign Investment and the Environment in International Law.* Cambridge: Cambridge University Press, 2012.

Scientific Articles

Andonova, Liliana and Assia Alexieva. Continuity and Change in Russia's Climate Negotiations Position and Strategy. *Climate Policy*, 12, 5 (2012):614-629.

Bulkeley, H., **Andonova, L.** et al. Governing climate change transnationally: assessing the evidence from a database of sixty initiatives. *Environment and Planning: Government and Policy* 30: 591 – 612.

Andonova, Liliana and Matthew J. Hoffmann. From Rio to Rio and Beyond: Innovation in Global Environmental Governance. *Journal of Environment and Development* 21, 1 (March 2012;): pp. 57-61.

Eaton, D. Technology and innovation for a green economy. *Review of European Community and International Environmental Law – RECIEL*, volume 22. Forthcoming 2013.

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

Hufty, M., Schulz, T., Justiniano, S. Switzerland in biodiversity conventions. *International Environmental Agreements.* In preparation, 2013.

Schulz, T. **Hufty, M.** and Tschopp, M. Small and Smart: The role of Switzerland in the Cartagena and Nagoya Protocols. *Swiss Political Science Review.* Submitted May 2012.

Hufty, M. and Boanada, V. La gouvernance par le bas. *Revue québécoise de science politique.* Numéro spécial sous la direction de Pierre Vercauteren.

Submitted June 2012.

Meierding, E. Climate Change and Conflict: Avoiding Small Talk about the Weather. Forthcoming in *International Studies Review*.

Meierding, E. Seizing Power: Petro-desperation and territorial conquest. Under Review

Meierding, E. Uranium and Internal Conflict: A question of value. Under Review

Swanson, T., G. Perino and L. Panzone. Motivation Crowding in Real Consumption Decisions: Who is messing with my groceries? *Economic Enquiry*, accepted December 2012, forthcoming 2013.

Swanson, T., B. Groom. Regulating Global Biodiversity. *Oxford Review of Economic Policy* 28, 1 (2012): 114-138.

Swanson, T., B. Groom. Biodiversity Bargaining: What is the Problem? *Review of Environment, Energy and Economics (Re3)*, <http://dx.doi.org/10.7711/feemre3.2012.09.002>, 2012.

Vinuales, J. Cartographies imaginaires: Autour du concept de 'régime spécial' dans les rapports entre droit humanitaire et droit de l'environnement . *Journal du droit international (Clunet)* (Editions C.N.R.S.), forthcoming 2013.

Vinuales, J., V. Pratt. Les limites au principe de non-rétroactivité en droit international. *Annuaire français de droit international* (Editions C.N.R.S.), 58 forthcoming 2013

Vinuales, J. The relationship between investment and environmental law in the transition to a green economy. *International Community Law Review* (Brill), 15 forthcoming 2013.

Vinuales, J. The Secret of Tomorrow: International Organisation through the Eyes of Michel Virally. *European Journal of International Law* 23, 2012. (Oxford University Press) pp. 543-564.

Vinuales, J., F. Perez Aznar. La distribución del riesgo regulatorio ambiental en el derecho de las inversiones internacionales. *Anuario Mexicano de Derecho Internacional* (Universidad Autónoma de México). 12 (2012) : 169-209.

Chapters in a Book

Andonova, L. and Manfred Elsig. 2012. 'Informal International Lawmaking: A Conceptual View from International Relations.' In Joost Pauwelyn, Ramses Wessel, Jan Wouters, eds. 2012. *Informal International Lawmaking*. Oxford University Press.

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Hufty, M., Schulz, T., Justiniano, S. (2013) *La Suisse dans les négociations environnementales internationales*, Le Savoir Suisse. Volume in Preparation.

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Other Publications

Andonova, L. 2012. Governance Innovation for Sustainability: Comparative Analysis of UNEP and World Bank Public-Private Partnerships, *Working Paper*, Sustainability Science Program, Harvard Kennedy School of Government

T. Swanson and Z. Ziegelhoefer, Economic Frameworks for Thinking about Growth, Sustainability and the Role of State Intervention, *United Nations Environment Program Working Paper*, 60 pp.

7. Events

Geneva Dialogues

The Geneva Dialogues lectures is a series of four public lectures given over the course of an academic year by prominent academics on a specific theme related to international environmental problems. In 2012 the following lectures took place:

Lavanja Rajamani, Professor at the Research Policy Centre New Delhi
The Role of Equity and Common but Differentiated Responsibilities in the Future Climate Agreement, 4 April, 2012

Oran Young, Professor at Bren School of Environmental Science and Management, University of Santa Barbara
Global Environmental Governance Post-Rio+20: Meeting the Challenges of the Anthropocene, 17 October, 2012

William C. Clark, Harvey Brooks Professor of International Science, Public Policy and Human Development. Mossavar-Rahmani Center for Business and Government, Harvard Kennedy School
Towards a future of Sustainable Development: Research Challenges and Opportunities, 29 October, 2012

Simon Dietz, Co-Director, Grantham Research Institute on Climate Change and the Environment, London School of Economics
The Climate Change Negotiations - What next? 28 November 2012

To date the Geneva Dialogues lectures have averaged approximately 60 attendees per lecture, with a majority drawn from the Institute's faculty and student body. There is regular representation from international organisations and NGOs, notably from the International Institute of Sustainable Development and the International Centre for Trade and Sustainable Development. CIES has increased the communication channels used for announcing the lectures to include the Geneva Environment Network and an expanded, targeted list of environment professionals in Geneva and the surrounding area. For 2012-13, CIES has introduced an online and on-site registration system for the Geneva Dialogues which will allow a more detailed understanding and analysis of attendance. The lecture series has been a starting point for further collaboration between CIES and the respective lecturers. Liliana Andonova will commence collaboration with William Clark on a project titled *Global Governance of Forests and the UN REDD Programme*. Tim Swanson will collaborate with Simon Dietz on a project funded by the MAVA Foundation, titled *A Sustainable Human Niche? Managing Global Land Use*.

Seminars, Natural Resources Seminar Series and Brown Bag Lunches

Seminars:

Jim Leape, Director General, WWF International, *Sustainable Development: The Agenda After Rio+20*, 8 October 2012.

Katharina Kummer-Peiry, Senior Advisor, UNEP, *From Cartagena to Rio-Waste as a Valuable Resource*, IHEID Summer Lecture, 13 June 2012.

Ken MacDonald, Professor, University of Toronto, *TEEB Begins Now: A Virtual Moment in the Production of Natural Capital*, 9 March 2012.

The outcome of Jim Leape's introduction to the CIES team and his presentation on October 8 included the possibility of collaborating with the Luc Hoffmann Institute (the research arm within the WWF) in the near future on issues of interest to both research institutes.

Environment and Natural Resource Economics Seminar Series

Salvatore Di Falco, University of Geneva, *How African Agriculture Can Adapt to Climate Change? A Counterfactual Analysis from Ethiopia*, 4 October 2012.

Charles Mason, University of Wyoming, *Uranium and Nuclear Power: The Role of Exploration Information in Framing Public Policy*, 11 October 2012.

Ben Groom, London School of Economics, *The Impact of new varieties of Rice: What are we measuring exactly?* 1 November 2012.

Bruno Lanz, ETH, Zurich, *Cap and Trade Climate Policy with Price regulated Firms*, 15 November 2012.

Lucas Bretschger, ETH, Zurich, *Theory of Diffusion of Clean Technologies*, 29 November 2012.

This PhD-level seminar series in Natural Resources and Environmental Economics is a new course for 2012-13 taught by Prof. Tim Swanson. The course aims to bring top scholars in Europe to CIES to give guest lectures on their recent research or research in progress. Arrangements have been made to permit and encourage the participation of students and faculty from the University of Geneva, as well as interested professionals in the international Geneva community. The series, which started in September, has been attracting approximately 10-15 students and external visitors per lecture. The series has been successful at these scholars sharing their research with CIES, and opening up the possibility of collaboration between them and CIES members. To illustrate this point, Lucas Bretschger has been included as a co-applicant on a project submitted to SNF for funding.

Brown Bag Seminars:

Katia Marzall, Visiting Fellow, The Graduate Institute. *Climate Change Adaptation Strategies – from international agreements to national policies and local implementations – reflections on the Brazilian Agriculture Sector*. 31 May 2012.

Liliana Andonova, The Graduate Institute. *Greener together? Transnational Networks and Paths of Environmental Compliance in Europe*. May 10, 2012.

Martina Bozzola, Research and Teaching Assistant, The Graduate Institute. *Climate Change, Smoothing with water stock and impact on the agricultural sector in the Po Valley (Italy)*. 26 April, 2012.

Joelle Noailly, Climate Change unit from the International Economics sector at CPB Institute. *Directing technical change from fossil fuel to renewable energy innovation*. 22 March 2012.

Chiara Ravetti, Research and Teaching Assistant, The Graduate Institute. *The Resource Curse, Aid and Political Instability*. March 1, 2012.

The Brown Bag lunch series was continued in 2012 as a means for CIES researchers, including both students and faculty, to present and share research in progress. The series has also served as a means for CIES to promote itself within the Graduate Institute community. During the academic year, 8 seminars were held, which were attended on average by 10-15 students and faculty.

Workshops and Symposia

Rio+20 Side Event on Legal Frameworks for Sustainable Development, June 20-21, 2012

The Center for International Environmental Studies (CIES) of the Graduate Institute of International and Development Studies co-organised an official civil society side-event on 20-21 June 2012 during the Rio+20 UN Conference on Sustainable Development (UNCSD). The event – also co-convened and hosted by the Getulio Vargas Foundation (FGV) at its Rio de Janeiro offices – gathered an international group of high-level speakers from both academic and policy worlds. Speakers discussed developments in the legal frameworks supporting sustainable development since the first Rio Conference in 1992 and also looked forward - identifying elements of the agenda for legal reforms and innovations beyond Rio+20.

Organized by CIES and Getulio Vargas Foundation (FGV), Budget 9,200 CHF, Funded by CIES and FGV.

Innovation, Diffusion and Green Growth, November 29-30, 2012

Following on the expert workshop on "Designing a Green Economy" held at the Institute in December 2011 in partnership with UNEP, CIES organised a Research Workshop on "Innovation, Diffusion and Growth" which took place on November 29-30, 2012 and led by Dr. Joelle Noailly. The purpose of the workshop was to introduce a new research proposal for the SNF funding programme Sinergia, to present CIES partners in Switzerland and abroad and to discuss research ideas in the field of innovation and green growth. The workshop brought together experts from the academic (ETH, EPFL, LSE, FEEM, University of Heidelberg) and policy world (OECD, UNEP, WIPO). The workshop refined the project proposal, which was submitted to SNF in December 2012.

Organized by CIES, Budget 5,200 CHF, Funded by CIES.

Conferences

14th Annual BIOECON Conference - "Resource Economics, Biodiversity Conservation and Development", September 18-20, 2012

BIOECON is the largest conference in the world on the topic of the economics of conservation and the natural environment. It was established by Prof. Tim Swanson in 1998 with the assistance of a European Commission grant. It has

been convened annually since that time, usually at Kings College Cambridge or in Venice.

Bioecon took place at Kings College in Cambridge, UK this year. The conference is supported by a partnership made up of IUCN (the World Conservation Union), Conservation International, European Investment Bank, UNEP, Foundation ENI Enrico Mattei (FEEM) and the Graduate Institute. It serves as an academic network, and a focal point for bringing together many of the most important thinkers on these issues from the social and policy sciences. CIES now serves as the coordinator for the network, in association with FEEM in Venice, Italy.

The keynote speakers for Bioecon 14 were Prof. Jean-Marie Baland speaking on *Forest degradation and the role of the state: the case of Himalayan forests in Nepal and India* and Prof. Stefanie Engel speaking on *Designing payments for environmental services – Selected issues*. There were seventy papers accepted for presentation at the two-day event, as well as a policy session on the role of capturing economic values of ecosystem services in developing countries. The subject matter of the conference covers every habitat from coral reefs to tropical forests, and looks at all forms of economic policies and mechanisms used in their conservation. Participants come from all parts of the world, and include academics and policy makers.

The Bioecon Network continues to play an important role in developing the analytic basis for the advancement of effective and efficient policies in the conservation of natural resources. CIES hopes to build from this enterprise in order to play a key role in the advancement of this important agenda.

Organized by the University of Cambridge and CIES, Budget 79'600 CHF, funded and co-organized by UNEP, European Investment Bank (EIB), FEEM, IUCN, Conservation International, CSIRO (Australia), CIES.

8. Summer Programmes and Executive Education

Several members of CIES have taught courses at IHEID's Summer Programme in June on International Affairs and Multilateral Governance: Global Public Health Goods: Health and Environment:

Tim Swanson: *Economics of International Environmental Agreements*

Liliana Andonova: *Global Public Goods, Current Features and Governance Challenges*

Emily Meierding: *The Environment and Conflict*

Jorge Vinuales: *Foreign Investment and the Environment in Developing Countries*

Derek Eaton has taught a half-day module on *Hot Issues on the International Agenda: Environment* as part of the Executive Master in International Negotiation and Policy-Making in November.

Additionally, Liliana Andonova has contributed to the Geneva Program of the Thunderbird School of Global Management in January 2012.

9. Policy Impact

Rio +20 Conference

The Rio+20 Conference held in Rio de Janeiro in June 2012 was the principal event of the year on the international agenda for environmental governance. Although there were no major treaties or agreements up for discussion, the Conference (the United Nations Conference on Sustainable Development, UNCSD) provided the global community with a historic moment of stock-taking and reflection on progress made since UNCED in 1992, including on Agenda21. CIES undertook a number of activities that aimed to advance the link between academic knowledge and policy practitioners on issues to be discussed at Rio+20. The most important of those was a two-day official side event in Rio during the Conference, organized in partnership with the Getulio Vargas Foundation (FGV, a leading Brazilian think-tank), on “Legal Frameworks for Sustainable Development”, as discussed above under Events. This side event, consisting of panel sessions with high-level speakers from academic and policy circles, attracted more than a hundred participants, comprising largely official delegates to the Conference.

Other CIES activities targeting Rio+20 included a guest appearance by Liliana Andonova on the World Radio Switzerland programme, “Not So Foreign Affairs” in the week prior to the conference. Derek Eaton also participated in several lead-up events in Geneva, including as invited speaker. These activities were not advancing one specific set of policy recommendations but were offering policy practitioners insight and understanding to underlying factors affecting preparatory negotiations, including the role of green economy as a principal conference theme, and also the consequences of the expanding number of stakeholders participating in international environmental governance. Following the conference, Jorge Vinuales published an op-ed article in *Le Temps* in September on the Rio Declaration and the future of the concept of sustainable development after Conference. CIES also collaborated with IHEID Communications to host an Institute Lecture by Jim Leape, Director General of WWF, on the path following Rio.

Green Economy

CIES has collaborated closely with UNEP over 2011-12 on the organisation's Green Economy Initiative. As highlighted elsewhere in this report, this has involved Research Projects (including new joint proposals to SNF and SNIS), Publications and Events. One of the most visible impacts of this work has been the preparation by CIES of a policy brief for UNEP on Innovation and the Green Economy¹. This provided UNEP with a framework for understanding the important role that innovation plays in sustainability, as well as the policies that drive this innovation. CIES and UNEP have jointly developed a research proposal for submission to SNIS in January 2013 that, if approved, would study barriers to diffusion of environmentally-friendly technologies and formulate policy recommendations for UNEP to promote in international negotiations, as well as in country-specific advisory services offered under the Green Economy Initiative.

Other

Jorge Vinuales gave a TedxZurich talk in October.² In the talk, he proposed the idea of establishing a "Tobin tax" on bottled water that will go towards the protection, distribution and research on water.

In terms of commissions and boards, Tim Swanson has been a member of the WIPO Experts Committee on "Designing IP strategies for Developing Countries".

At the end of 2012, CIES formulated plans to initiate a new policy brief series, entitled *Geneva Perspectives on International Environmental Issues*. This will comprise 2-4 page briefings, written in language accessible to policy practitioners. Briefings will either summarise research findings from CIES projects, or provide an informed perspective on topical issues of international environmental governance, from specialists at the Institute or invited outside commentators.

10. Relationship with International Geneva

The Geneva Dialogues Series of Lectures on International Environmental Issues (included above under Events) is one important means by which CIES seeks to provide a forum for informed discourse for the international Geneva community. CIES members have been active in the local community of international Geneva:

Tim Swanson has been collaborating closely with the Economics Department at

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www.unep.org/greeneconomy/Portals/88/documents/research_products/briefingpapers/en_GE_Innovation.pdf

² www.tedxzurich.com/2012/08/jorge-vinuales/

the University of Geneva, more specifically in the form of their joint collaborative Environment and Resource Economics seminar series. Aside from his membership in a WIPO Experts Committee (described above), he has served on the Appointments Committee at IUCN, Search for Director General of Luc Huffman Biodiversity Research Institute.

Liliana Andonova has been active in the Geneva and Swiss community in the past year. In her research work on Governance Entrepreneurs, she has been establishing contact with various UN bodies in Geneva. She had been invited to take part in the Public Private Partnerships and Climate Change discussions within the World Economic Forum Event on the Green Climate Fund. She has also co-organised the section on Environmental and Development as part of the Swiss Political Science Association Annual Conference in Zurich.

Jorge Vinuales has had regular speaking engagements in Geneva. He has been invited to speak at several events organised by the UN and universities in Geneva., more specifically seminars and lectures at the WTO, WHO and Palais des Nations and UNIGE.

Derek Eaton has had speaking engagements in Geneva at events organised by NGOs and UNEP. He has also participated actively and regularly in workshops and seminars set up by such organisations to broaden awareness and visibility of CIES.