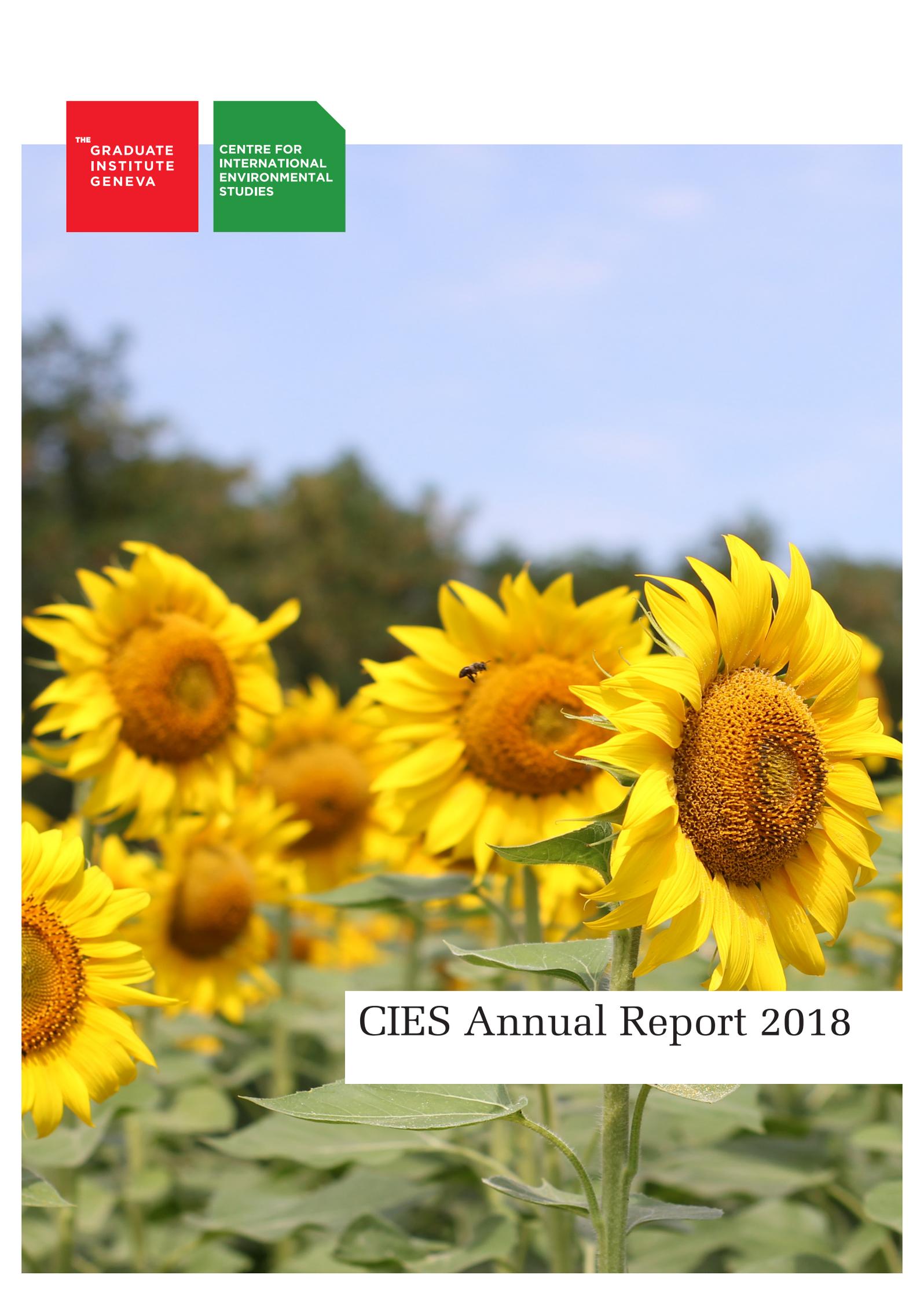


THE
GRADUATE
INSTITUTE
GENEVA

CENTRE FOR
INTERNATIONAL
ENVIRONMENTAL
STUDIES

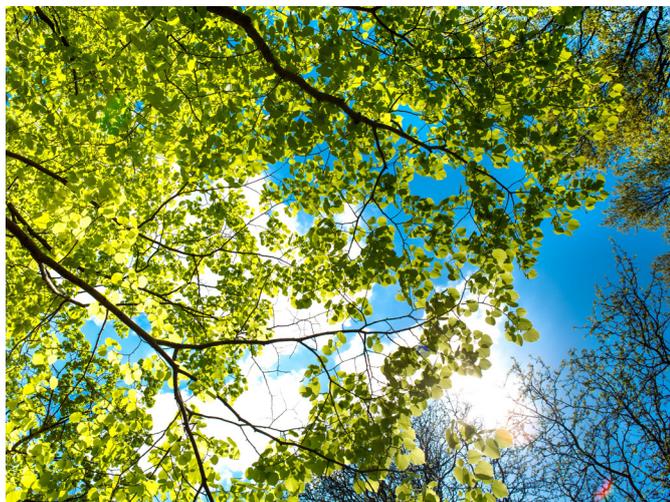


CIES Annual Report 2018

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1. Summary overview of major accomplishments and developments



Established in 2010, the Centre for International Environmental Studies (CIES) is the Graduate Institute's focal point for research on environmental issues. The centre is dedicated to the better understanding of the social, legal, economic and political facets of global problems related to the environment, with an emphasis on the international dimension and North-South relations. The centre addresses complex problems such as climate change, biodiversity, food security, energy, natural resources and development.

CIES's mission is to conduct high-level academic research to improve the quality of decision-making in public and private spheres. This goal is achieved by creating a platform for researchers to conduct interdisciplinary research on the environment, by providing training to Master and PhD students in specialized areas of research and by disseminating research results through outreach activities targeting academic experts and policymakers.

1.1. Continued growth and consolidation of CIES activities

In 2018 the CIES entered its 8th year of existence and our activities now reflect those of a mature research centre. With ten affiliated faculty members, twelve research assistants and postdocs, and four visiting fellows, our offices on the top floor of the Maison de la Paix were bustling with activity, especially in the autumn semester. This year the centre continued its growth through expanding existing research programmes, initiating new research projects, involving newly affiliated faculty members and training the next generation of students.

This consolidation phase was possible thanks to the strong and committed community of CIES faculty members. Among the highlights of 2018, Prof Liliana Andonova was awarded a SNF research grant of CHF 862'453 for the project "Accountability of International Organizations", which will launch an important body of research in the "Environmental Governance" research programme for the coming years. Among other research programmes, the project "Financing investments in clean technologies" (Dr Joelle Noailly, International Economics), which is part of the research programme on Climate, Energy and Innovation, started as of January 2018 and the project; and "The Impact of Compulsory School Laws in a Developing Country Context" (Prof Tim Swanson and Prof Martina Viarengo, International Economics), part of the research programme "Resources and Development", started in July 2018.

Another remarkable development over the year 2018 was the expansion of the CIES research programme "Agrarian environment and food systems" created last year. The programme was strengthened by the addition of two faculty members, namely Amalia Ribi Forclaz, Associate Professor in International History, and Christophe Gironde, Senior Lecturer in Development Studies, both experts on agricultural issues at the Graduate Institute. Under the lead of Prof Susanna Hecht and

Amalia Ribi Forclaz (International History), all professors involved in this CIES research programme joined their efforts to write a proposal for an interdisciplinary workshop on "The Future of Food", which aims to explore the agrarian transitions that are under way under the new climate regime. This proposal was successfully awarded by the SNF in December 2018 and the academic workshop bringing together many high-profile international experts will take place in April 2019. The meeting will be a great opportunity to jump-start a series of research activities on the topics of agriculture and food within the CIES.

The expansion of the CIES in 2018 mirrored the growth of the specialisation track on "Sustainability, Environment and Resources" in the Interdisciplinary Masters (MINT) programmes of the Graduate Institute, which attracted a record number of students this year reflecting the growing interest of students for environmental careers. The links between the CIES and the MINT Environment track have been reinforced as Prof Andonova, co-director of the CIES, was appointed Director of the MINT programmes in September 2018. The CIES collaborated again this year with the students' Environmental Committee and the MINT department to welcome all students enrolled in the Environmental track during their first week in Geneva (See image 1). Prof Andonova also used many opportunities to introduce the MINT programmes during her research visits abroad.

Our own CIES alumni made outstanding career steps. Suchita Srinivisan, PhD candidate in International Economics, started as a post-doctoral researcher at ETH Zurich as of January 2018. Yixian Sun, PhD candidate in IR/ Political Science left the CIES to work as a Postdoctoral Fellow at Yale School of Forestry & Environmental Studies from December 2018.

CIES aims to provide an interdisciplinary perspective on international environmental problems.

1.2. Dissemination and Impact

The year 2018 was also rich in terms of research output and results and the Centre is finally reaping the fruits of research projects initiated several years ago. Prof Tim Swanson (International Economics) was very active in presenting and disseminating the results of the MAVA “Human Niche” project. The research results were presented at major events co-organised by the CIES, namely the BIOECON conference on “Land use, agriculture and biodiversity” and the “The New Malthusianism” Symposium held in Cambridge. The latter brought together economic historians, population/land use modelers, growth theorists, and resource economists and included a keynote lecture by Sir Partha Dasgupta, Ramsey Professor Emeritus of Economics at the University of Cambridge.

In terms of dissemination, the CIES also organised two “Book Launch” events to promote the research from CIES faculty members to a broader audience. In March 2018, the launch event of Prof Andonova’s new book “Governance entrepreneurs: International organizations and the rise of global public-private partnerships” was attended by more than 80 people. In November 2018, our two new affiliated faculty members Prof Amalia Ribí and Dr Christophe Gironde organised an event to promote the book “Crisis and conflict in agriculture” to which Christophe Gironde contributed.

Finally, besides our own research activities, the CIES continued to feed the public debate with high-profile public events. Many of the topics covered in 2018 explored cutting-edge topics and trends, such as carbon-negative technologies to fight climate change (“Drawdown” public event co-organised with the World Business Council for Sustainable Development in April 2018) or the rise of bottom-up decentralised action for climate change (“New dynamics for climate action”, Prof Matthew Hoffman, November 2018). Such events contributed to increase the impact of our research by sharing the expertise and work of our faculty members. This is also reflected in the many contributions and citations of CIES faculty members’ work in policy-oriented studies and the popular press over the last year. After experimenting with CIES social media for the first time in 2018, we aim to further develop these communication channels in 2019 to increase our outreach.



Image 1: Liliana Andonova at the MINT Environment Track welcome event with Gianluca Gygax, former President of the Environmental Committee

2. Staffing of the Centre

The Centre is led by an interdisciplinary Executive Committee of full professors at the Institute appointed in the area of the environment, including Timothy Swanson (Economics), Liliana Andonova (IR/ Political Science), Susanna Hecht (International History) and Marc Hufty (Development Studies). This Executive Committee operates together with other associated faculty members from various departments, namely: Anne Saab (International Law), Shaila Seshia Galvin (ANSO), James Hollway (IR/Political Science), and Joëlle Noailly (Economics). Amalia Ribí Forclaz (International History) and Christophe Gironde (Development Studies) joined CIES in 2018.

Dr Joëlle Noailly also holds the function of Head of Research of CIES, coordinating the research programmes and projects of the Centre. In March 2018, Andhina Kusumawidjaja replaced Nathalie Fauvarque as the Coordinator of the Centre.

In 2018, the Centre employed 1 post-doctoral researcher and 11 Research Assistants (RAs), among which 9 are paid on third-party funding and 2 are temporary RAs paid on core funding:

- Morgan Scoville-Simmonds (post-doctoral researcher, Development Studies)
- Jonas Köppel, PhD candidate (ANSO)
- Jamie Fraser, PhD candidate (International Economics)
- Nicholas Brown Tyack, PhD candidate (International Economics)
- Pedro Guimaraes Naso, PhD candidate (International Economics)
- Yixian Sun, PhD candidate (International Relations/ Political Science)
- Roxana Manea, PhD candidate (International Economics)
- Radu Barza, PhD candidate (International Economics)
- Laura Nowzohour, PhD candidate (International Economics)
- Dario Piselli, PhD candidate (International Law)
- Carlotta Nani, PhD candidate (International Economics)
- Tiffany Smith, MA candidate (International Law)

Four students involved in CIES projects and/or supervised by CIES faculty have submitted their PhD thesis in 2018:

- Yixian Sun, PhD Candidate in International Relations and Political Science, defended his PhD thesis on 27 November on "Beyond the North: The Diffusion of Private Sustainability Governance in China". Supervisor: Liliana Andonova
- Defne Gonenc, PhD Candidate in International Relations and Political Science, defended her PhD thesis on 12 October on "The Role of Litigation in Norm Transformation: A Study of Human Rights Approaches To Environmental Protection". Supervisor: Liliana Andonova

- Sorina Crisan, PhD Candidate in International Relations and Political Science, defended her PhD thesis on 30 October on "The Politics of Intervention: The Role of Psychological Distance in Foreign Policy Decision Making". Supervisor: James Hollway
- Carolina Ferreira, PhD Candidate in International Relations and Political Science, submitted her PhD thesis on "Institutional Innovation in Multilevel Governance: Forests Institutions in Light of Climate Change". Supervisor: Liliana Andonova (will be defended in 2019).

The Centre was honoured to welcome Professor Tim Flannery for his second visit, as the Segré Foundation Distinguished Visiting Professor in the spring semester 2018. Tim Flannery participated actively in the activities of the Centre. He engaged with the students during his MINT course on "Climate, clean energy and carbon negative technologies" and during interdisciplinary seminars. He also contributed to reinforce the links with the International Geneva community by participating in the panel discussion "Drawdown" co-organised with the World Business Council for Sustainable Development (WBCSD) and by drafting a CIES Policy Brief "The New US Tax Credits and Carbon Negative Technologies" disseminated among the Geneva community.

In June 2018, CIES also hosted Peter Haas, Professor of Political Science at the University of Massachusetts for a short research visit.

Five visiting fellows joined the Centre this year:

- Billel Djeghri (Economics), Assistant Professor at Université Constantine 2 Abdelhamid Mehri, Algeria
- Katja Doose (Environmental History), Research Fellow at School of Geography, Earth and Environmental Sciences, University of Birmingham, UK
- Eva Romée van der Marel (Environmental Law), Research Fellow at the K.G. Jebsen Centre for the Law of the Sea, The Arctic University of Norway
- Philipp Grosskurth (Economics), Researcher at RWI - Leibniz Institute for Economic Research
- Matthias van den Heuvel (Economics of Innovation), Research assistant, EPFL

Eva R. van der Marel will join the Fisheries department at the European Commission as of April 2019.



Image 2: From Left to right: Shaila Seshia Galvin, James Hollway, Joëlle Noailly, Susanna Hecht, Liliana Andonova, Christophe Gironde, Amalia Ribic Forclaz, Anne Saab, Tim Swanson, Anhdina Kusumawidjaja. Absent: Marc Hufty

3. Active, ongoing research projects

Since 2017, CIES reorganised the structure of its research programmes as follows:

- Environmental Governance
- Climate, Energy and Innovation
- Resources and Development
- Agrarian Environment and Food Systems

These programmes gathered a total of 7 externally funded projects in 2018. Funding for these projects came from diverse sources, including Swiss public research funding organisations (SNF and SNIS), and private foundations. Two new projects started in 2018, namely: “Financing Investments in Clean Technologies” (Joëlle Noailly) and

“The Impact of Compulsory School Laws in a Developing Country Context” (Timothy Swanson), one project ended “Transnational Private Governance for the Environment in China” (Yixian Sun) and one has been extended “Sustainable Human Niche” (Timothy Swanson), which will finish in March 2019.

3.1. Environmental Governance Research Programme



This research programme studies the governance institutions of global environmental problems, including the negotiation and effectiveness of international environmental regimes and the emergence of private and hybrid systems of global environmental governance. The programme adopts an interdisciplinary perspective on the design, dynamics and impact of different institutional mechanisms.



Transnational private governance for the environment in China

Originating from advanced economies, many private governance programmes are gradually introduced to developing countries where global production increasingly consolidates. However, very little research attempts to uncover whether transnational

private governance is able to “trade up” environmental standards in these countries. This project sought to bridge this gap by examining factors which determine variation in China’s uptake of transnational private governance for different environmental issues. Theoretically, China is a critical case because of its political institutions, thus the project also investigates whether the authoritarian regime only leaves very limited space for private governance in China as is often

assumed. The project developed a dataset on the private governance programmes having been introduced in China, and test hypotheses on driving forces for Chinese firms’ participation through statistical analyses and paired case studies. By exploring the causes of the success or failure of private environmental governance in China, along with dynamic public-private interactions between private governance and state regulation there, the project contributed to the scholarship on environmental governance and private authority, on the one hand, and on international relations and Chinese politics, on the other.

- LILIANA ANDONOVA, Prof. IHEID, YIXIAN SUN, PhD Candidate, Research Assistant (main applicant)
- Financed by SNF, Doc.CH, CHF 203,544 – Start: September 2015, End: August 2018 – Competitive Process



Effectiveness of partnerships for advancing the sustainable development goals: behavioural pathways and impacts

Partnerships between public and non-state actors for the provision of collective goods have become important instruments for addressing core issues on the sustainable development agenda such as health, education, humanitarian issues, or clean energy. The UN Sustainable Development Goals (SDGs) emphasise the role of partnerships in the implementation of sustainability. Yet, while the academic literature provides valuable insights on the rise of public-private partnerships (PPPs), we know considerably less about their variable effectiveness and impact.

The project contributes to scientific and practical progress by providing the first to our knowledge inter-disciplinary, integrated and comparative theoretical approach and data on the effectiveness of partnerships for sustainability. The methodology leverages original datasets and cases of partnerships by project participants, e.g. data and cases

on partnerships in the multilateral system; data on PPPs which competed for the Roy Family Award managed by the Kennedy School of Government; data and cases from the business sector in collaboration with the UNIGE PPP Research Centre; data of partnerships for climate change, and data and cases from partner organisations – UNICEF and the WEF.

→ **LILIANA ANDONOVA**, applicant, Prof. IHEID,
GILLES CARBONNIER, co-applicant, Prof. IHEID,
 Research Assistant: **JAMIE FRASER**

→ Financed by SNF, Doc.CH, CHF 262,273 – Start: November 2017, End: October 2019 – Competitive Process

3.2. Climate, Energy and Innovation Research Programme



This programme brings together the various disciplines of the Centre to conduct research on issues of climate change, energy and technological developments.



Environmental regulation and economic competitiveness

During the UN conference on climate change held in Durban in 2011, the European Union and some other developed countries, including Switzerland, have pledged to reduce their greenhouse gas emissions between 20% and 30% below the level of 1990. The economic cost

linked to emission reductions could penalise countries planning a strong reduction and thus cause a rebalancing of international economic competitiveness. These economic impacts present a major obstacle to achieving a global agreement on climate. Through this project, we aim to better understand the impact of environmental policies on economic competitiveness. One of the case studies looking at the USA focuses on the adoption of new technologies in the policy of tradable emissions quo-

tas limiting SO₂ emissions. The results of this project will provide new empirical perspectives on the economic implications of environmental policies, and they will allow us to make recommendations for effective public policies both at the environmental and the economic levels.

- **TIMOTHY SWANSON**, Prof. IHEID (co-applicant)
- **RICHARD BALDWIN**, Prof. IHEID (co-applicant)
- **SUCHITA SRINIVASAN**, PhD candidate, International Economics, Research Assistant
- **KRITIKA SAXENA**, PhD candidate, International Economics, Research Assistant
- **PEDRO GUIMARAES NASO**, PhD candidate, International Economics, Research Assistant
- Financed by SNF, CHF 395,619 – Start: July 2015, End: June 2019 – Competitive process



Financing investment in clean technologies

The overarching objective of this project is to investigate how society can steer financing towards cleantech investments. Greater understanding about the financing of cleantech is critical not only in light of the massive amount of investment

needed but also because cleantech differs from other technologies on two important aspects. First, clean technologies are largely dependent on public support as they suffer from a double externality: an environmental externality, which relates to the fact that firms do not bear the full costs of pollution, and a knowledge externality, which stems from the public good nature of knowledge. As a result, policy uncertainty, i.e. frequent changes in environmental and climate regulations, is particularly harmful to cleantech investments. Second, cleantech investors differ from traditional investors in other technologies: they are of more dispersed, diverse and small-scale nature than traditional investors and may be driven by different (e.g.

altruistic) motives. Much of the dynamism in the sector appears to be driven by new types of investors, rather than the traditional ones (e.g. incumbent energy firms). The research project is structured around two main goals. The first goal is to understand how uncertainty about the policy environment impacts cleantech investment. The second goal is to understand how new tools and financing models (e.g., crowd funding) can help attract new investors to cleantech.

- JOËLLE NOAILLY, Lecturer, IHEID (co-applicant)
- GAËTAN DE RASSEFOSSE, EPFL (co-applicant)
- LAURA NOWZOHOUR, PhD candidate, International Economics, Research Assistant
- MATTHIAS VAN DEN HEUVEL, PhD candidate, Economics of Innovation, EPFL
- Funded by the SNF, NRP 73, CHF 714'719 – Start: January 2018; End: December 2021, Competitive process

3.3. Agrarian Environment and Food Systems Research Programme



Connections among agriculture, environment, and food systems have many facets. The environmental impacts of agriculture and associated land use span multiple scales, from local biodiversity to the earth's atmospheric systems. Yet increasingly rapid and unpredictable environmental change also shapes and conditions the way agriculture is practiced and food is produced. Within these dynamic agrarian environments, food systems are similarly multi-scalar and complex, involving a range of international, state, and non-state actors and institutions, and governed by multiple legal and regulatory frameworks. This research programme brings together disciplinary perspectives from law, anthropology, political science and international relations, economics, and history, to address critical questions at the interface of agricultural production, food systems, and environmental change.

In 2018, there were no projects funded on external sources in this research programme. On-going internal research projects include "Nature and Agriculture in the Indian Himalaya" (Shaila Seshia Gavin) and "GMOs" (Anne Saab), which led to a chapter in the book: J. Vinales and E. Lees, *Oxford Handbook of Comparative Environmental Law* that is forthcoming in 2019.

As of April 2019, the workshop "Future of Food" will bring together all faculty members of this research programme to reflect on future research directions.

3.4. Resources and Development Research Programme



Developing countries are crucial to the resolution of global problems, especially their choices regarding development. This programme considers how environmental and resource challenges, such as land use or biodiversity loss, affect development paths of developing countries.



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.

- **TIMOTHY SWANSON**, Professor, the Graduate Institute
- **ROXANA MANEA**, PhD Candidate, International Economics, Research Assistant
- **HELENA TING**, PhD Candidate, International Economics, Research Assistant
- **NICHOLAS TYACK BROWN**, PhD Candidate, International Economics, Research Assistant
- Funded by the MAVA Foundation, CHF 1 Million – Start: September 2012, End: March 2019



The global political ecology of lithium commodity chain

Due to their ability to store large amounts of energy in lightweight compact form, lithium-based technologies are now at the cutting-edge of research and development in energy storage. Reflecting this interest, the global demand for lithium is expected

to multiply tenfold by 2050 and its price is increasing rapidly. Lithium has become one of the planet's most strategic commodities. The aim of this project is to take stock of the lithium commodity chain

from a political ecology and governance perspectives. Can lithium, as a symbolic commodity for the green economy, be produced and consumed in a socially equitable and environmentally sustainable way? What are the implications of present and future market configurations for the metal? And what are the obstacles for a sound governance regime of this natural resource?

- **MARC HUFTY**, Professor, the Graduate Institute (main applicant)
- **MORGAN SCOVILLE-SIMMONDS**, Postdoctoral Researcher, Development Studies
- **JONAS KÖPPEL**, PhD Candidate, ANSO, Research Assistant



The Impact of Compulsory School Laws in a Developing Country Context: Examining Impacts and Explanations in Sub-Saharan Africa

This research aims to assess the impact of compulsory schooling laws (CSLs) in a developing country context, with special

reference to sub-Saharan Africa (SSA). The project focuses on the impact of CSLs on household bargaining outcomes, with special reference to issues of fertility, child labour and the allocation of tasks within the household. The project shapes an agenda for future research regarding the role of CSLs in engendering development and behavioural changes, within the context of severely constrained

households in SSA. The aim is to further the understanding of the capacity of CSLs to have impacts for individuals and societies in this context, and to further understanding of the institutional and development constraints that limit the effectiveness of such laws.

- **TIM SWANSON**, Professor, IHEID (co-applicant)
- **MARTINA VIARENGO**, Professor, IHEID (co-applicant)
- **ROXANA MANEA**, PhD candidate, International Economics, Research Assistant
- **RADU BARZA**, PhD candidate, International Economics, Research Assistant
- Funded by the SNF, CHF 487'661.–Start: July 2018, End: June 2022 – Competitive process

4. Proposals submitted during 2018

Along the year 2018, CIES researchers submitted 5 proposals to external funders among which 3 were accepted and two are currently under review. In total, the 3 new grants awarded in 2018 amount to a total of CHF 975'728.

James Hollway (IR/PS) received an internal seed money grant of CHF 5'000 by the Research Department of the Graduate Institute. These grants are meant to help researchers initiate collaboration for future projects; the researchers commit themselves to submit a research proposal over the next year.



Accountability of International Organisations: the Relevance of Structure, Salience and Exercise of Power

This project will seek to develop a broadly generalisable theory that places a spotlight, for the first time, on explaining the variable accountability of IOs, and how institutional design and political action affect the scope of international accountability. The theoretical framework will more specifically ask what features of international politics are likely to enable a greater number of accountability mechanisms, to the broadest set of relevant accountability-holders. It will inform a comparative empirical analysis on the accountability of five IOs (ICRC, UNICEF, the World Bank, the IMF, and the WHO), selected according to the expected variation in their institutional structure and other explanatory variables. The scope of accountability of IOs will be measured, using innovative layering of methodologies from multiple social science disciplines, including analysis of historical archives and legal instruments, and inter-temporal and comparative analysis on who are the formal and informal accountability holders, and through what accountability mechanisms they access information, demand justification, or impose consequences. The project aims to make substantial contributions to International Relations theories, the study and teaching of international institutions, and, importantly, to public policies and IO reforms.

- LILIANA ANDONOVA, Professor IHEID (main applicant)
- Funded by: SNF
- Budget: CHF 862'453
- Start: September 2019, End: August 2023
- Competitive Process
- Status: Accepted

Soil stabilisation and livelihood improvement thanks to carbon storage and bio-products: conditions for multi-facets and sustainable benefits (MFB)

It is anticipated that Switzerland will be involved in several emission mitigation projects to attain the 15% reduction. In this context, a case study is considered in this research to determine the potential for such projects. The case study is the environmental, economic and social implication of a conceptual non-conventional biomass-based bio refinery and the developing country India is taken as an example. This case study will unlock the opportunities and the challenges posed from the Swiss/India public-private partners perspective in handling such projects from an environmental, economic, and social point of view, which would be helpful for Switzerland to decide such projects in other developing countries that aim to achieve greenhouse gas reduction goals.

- EDGARD GNANSOUNOU (main applicant), Bioenergy and Energy Planning research Group (BPE)
- SHAILA SESHIA GALVIN (Partner 1), Co-Applicant (IHEID)
- BINOD PARAMESWARAN (Partner 2); Microbial Processes and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology
- Funded by: SNF – Sinergia
- Budget: CHF 2'400'000 (approximately)
- Competitive Project
- Status: Under review

“Packaging Behaviour”: How Policy Can Influence Consumer Behaviour

This research project aims to provide an inter-disciplinary approach to addressing a critical question in policy-making: how is it possible to create governmental policy that is largely self-implemented and self-enforced? A question such as this one is critical to the attainment of certain policy objectives, such as the one concerning consumer-generated waste in everyday shopping decisions. The societal outcome from literally millions upon millions of individual consumption decisions concerning plastics and packaging determines the state of the environment in many parts of the world, yet it is a virtual impossibility for governments to expend the resources to implement and enforce the laws and policies that are able to determine these individual decisions or the social outcome that results from them.

This indicates that the way forward in managing environmental problems that result from universally disaggregated and decentralised decision-making must lie in changing individual behaviours. Individuals as consumers must come to see that they have the individual responsibility for addressing the environmental problems of this nature, and they must be willing to self-enforce upon themselves the individual behaviours that are capable of doing this.

Future of Food Workshop

This workshop, highly multidisciplinary in nature, brings together climate scientists, contemporary analysts of farming systems and vulnerabilities, as well as scholars studying the environmental trade off, structural transformations, exposures and fragilities of socio natures under climate change. There are elements that already exist that we can review in terms of strategies, and history has things to tell us about what has worked and what has not. We view this workshop as one step for developing new ways of thinking about, adapting to and understanding the varying outcomes of food production in the uncharted realms that we now confront. The purpose of this conference is to explore the powerful agrarian transitions that are under way in rural landscapes under the new climate regime. This workshop brings together scholars from multiple disciplines ranging from history to agro-ecology to explore these issues through the organising axis of the Future of Food.

Private Sustainability Governance and Emerging Economies: The Case of Tea Certification in China, India, and Kenya

This research project seeks to improve our understanding on the global impacts of private governance by asking: what explains varying levels of acceptance of sustainability certification in emerging economies? To address this question, agent-level and structural accounts will be combined to develop a new theory explaining how the interplay between actors’ strategic behaviours and domestic institutions shape the acceptance of private governance. The project attempts to develop a more broadly generalisable comparative framework on private governance in the Global South. The project’s empirical aspect will compare tea certification in the world’s three largest tea producers: China, India, and Kenya. Tea is an understudied commodity in the literature despite being subject to several certification schemes and associated with serious sustainability issues such as chemical pollution and labor rights violations. Given the importance of the commodity for the countries selected and the variation in domestic production and regulations, the three cases constitute ideal grounds to study how

The current research proposal aims to do this by means of, first, understanding better how consumers make choices regarding decisions that involve joint private (consumption) goods and public (environmental) goods and, second, understanding how governmental interventions might most effectively guide consumers to make choices that achieve particular societally-beneficial outcomes (i.e. reduced wastes in consumption). We will do so by developing an inter-disciplinary approach that combines natural scientists (life-cycle scientists), behavioural psychologists, behavioural economists, and policy impact researchers. Together we intend to combine these fields to better understand consumption decisions and develop policies to address these important types of problems.

- **TIMOTHY SWANSON**, Professor (IHEID), (main applicant)
- **ROBERTO WEBER** (University of Zürich), (co-applicant)
- **MICHAEL SIEGRIST** (ETHZ), (co-applicant)
- Funded by: SNF Sinergia
- Budget: CHF 2'399'819
- Competitive Project
- Status: Under review

- **SUSANNA HECHT**, Professor (IHEID), (main applicant)
- **AMALIA RIBI FORCLAZ**, Professor (IHEID), (co-applicant)
- Partners: **ANNE SAAB, SHAILA SESHIA GAVIN, CHRISTOPHE GIRONDE**
- Funded by: SNF – Scientific Exchange
- Budget: CHF 11'000
- Competitive Process
- Status: Awarded

domestic institutions interact with agents’ strategies and influence the acceptance of private governance. The project is organised as a combination of comparative case studies and quantitative survey analysis. The project aims to make new contributions to the study of transnational governance and environmental politics.

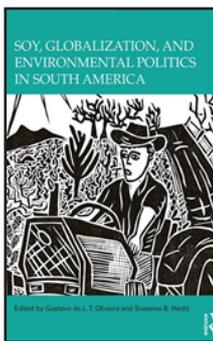
- **YIXIAN SUN** (main applicant)
- SNF Early-postdoc mobility fellowship
- Host institution: Yale University
- Grant awarded: CHF 102'275
- Starting from November 2018 (18 months)

5. Publications

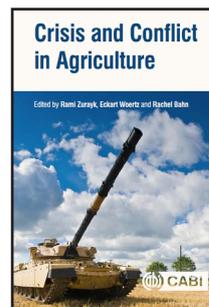


In 2018, CIES researchers contributed to 7 books and 14 articles in academic journals. Another 14 articles or books contribution have been accepted for publication in 2018 and will be published in 2019. Additionally, 4 CIES publications (in the Research and Policy Paper series) were authored or co-authored by CIES staff. Over the course of the year, CIES researchers presented their work at 57 conferences, workshops or seminars in Switzerland and abroad.

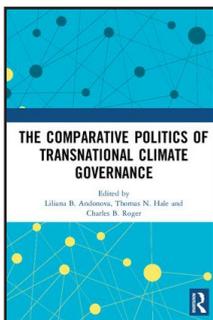
5.1. Books, edited volumes and contributed chapters



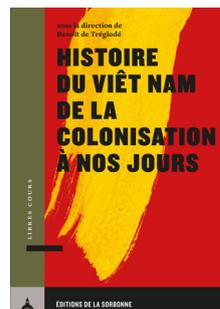
Book monograph
Oliveira, G. de L. T. & Hecht, S. B. SOY, GLOBALIZATION, AND ENVIRONMENTAL POLITICS IN SOUTH AMERICA. (2018).
(See Box 1)



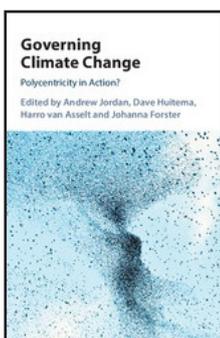
Book Chapter
Gironde C., 2018, AGRARIAN TRANSITION, ADAPTATION AND CONTAINED CONFLICT IN CAMBODIA AND VIETNAM SINCE THE 1990s, in Zurayk R. Woertz E. and Bahn R. (eds), Crisis and Conflict in the Agrarian World: An Evolving Dialectic, Oxfordshire : CABI Publishers, pp. 214-231



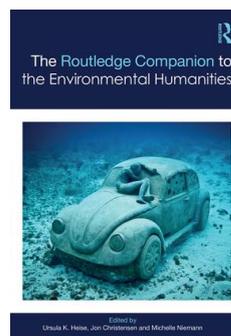
Edited Book Volume
Andonova, L. B., et al., editors. THE COMPARATIVE POLITICS OF TRANSNATIONAL CLIMATE GOVERNANCE. Routledge, Taylor & Francis Group, 2018.



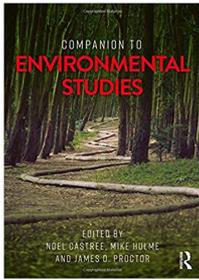
Book Chapter
Gironde C., 2018, "LE MONDE RURAL", IN HISTOIRE DU VIÊT NAM DE LA COLONISATION À NOS JOURS, DE TRÉGLODÉ, B. (Ed), 2018, Paris: Editions de la Sorbonne, pp. 139-15



Book chapter
Andonova, L. B., Castro, P. & Chelminski, K. TRANSFERRING TECHNOLOGIES: THE POLYCENTRIC GOVERNANCE OF CLEAN ENERGY TECHNOLOGY. In Governing Climate Change (eds. Jordan, A., Huitema, D., van Asselt, H. & Forster, J.) 266–284 (Cambridge University Press, 2018)



Book Chapter
Hecht, Susanna B. DOMESTICATION, DOMESTICATED LANDSCAPES, AND TROPICAL NATURES. In The Routledge companion to the environmental humanities. (Routledge, Taylor & Francis Group, 2018).



Book Chapter
Scoville-Simonds, M., and K
O'Brien. 2018. VULNERABILITY. In
Companion to Environmental
Studies, edited by Noel Castree,
Mike Hulme, and James D. Proctor,
127–35. London: Routledge. Taylor
& Francis Group

Box 1 – Prof. Susanna Hecht's latest book



Soy in South America constitutes one of the most spectacular booms of agro-industrial commodity production in the world. It is the pinnacle of modernist agro-industrial practices, serving as a key nexus in food–feed–fuel production that underpins the agribusiness–conservationist discourse of “land sparing” through intensification. Yet soy production is implicated in multiple problems beyond deforestation, ranging from pesticide drift and contamination to social exclusion and conflicts in frontier zones, to concentration of wealth and income among the largest landowners and corporations.

This book explores in depth the complex dynamics of soy production from its diverse social settings to its transnational connections, examining the politics of commodity and knowledge production, the role of the state, and the reach of corporate power in everyday life across soy landscapes in South America. Ultimately, the collection encourages us to search and struggle for agro ecological alternatives through which we may overcome the pitfalls of this massive transnational capitalist agro-industry. This book was originally published as a special issue of *The Journal of Peasant Studies*.

5.2. Articles published in scientifically referred journals

- Andonova, L. B.** The Power of the Public Purse: Financing of Global Health Partnerships and Agenda Setting for Sustainability. *Chinese Journal of Population Resources and Environment* 16, 186–196 (2018).
- Block, P., Koskinen, J., **Hollway, J.**, Steglich, C. & Stadtfeld, C. Change we can believe in: Comparing longitudinal network models on consistency, interpretability and predictive power. *Social Networks* 52, 180–191 (2018).
- Lanz, B., Dietz, S. & **Swanson, T.** The Expansion of Modern Agriculture and Global Biodiversity Decline: an Integrated Assessment. *Ecological Economics* 144, 260–277 (2018).
- Lanz, B., Wurlod, J.-D., Panzone, L. & **Swanson, T.** The behavioral effect of Pigovian regulation: Evidence from a field experiment. *Journal of Environmental Economics and Management* 87, 190–205 (2018).
- Larcom, S. T., Panzone, L. & **Swanson, T.** Follow the Leader? Testing for the Internalization of Law. *Apollo - University of Cambridge Repository* (2019).
- Pernet, C. A. & **Ribi Forclaz, A.** Revisiting the Food and Agriculture Organization (FAO): International Histories of Agriculture, Nutrition, and Development. *The International History Review* 1–6 (2018).
- Ravetti, C., Sarr, M. & **Swanson, T.** Foreign aid and political instability in resource-rich countries. *Resources Policy* 58, 277–294 (2018).
- Ribi Forclaz, A.** From Reconstruction to Development: The Early Years of the Food and Agriculture Organization (FAO) and the Conceptualization of Rural Welfare, 1945–1955. *The International History Review* 1–21 (2018).
- Saab, A.** An International Law Approach to Food Regime Theory. *Leiden Journal of International Law* 31, 251–265 (2018).
- Schleifer, P. & **Sun, Y.** Emerging markets and private governance: the political economy of sustainable palm oil in China and India. *Review of International Political Economy* 25, 190–214 (2018).
- Scoville-Simonds, M.**, Climate, the Earth, and God – Entangled narratives of cultural and climatic change in the Peruvian Andes. *World Development* 110, 345–359 (2018).
- Seshia Galvin, S.** Interspecies Relations and Agrarian Worlds. *Annual Review of Anthropology* 47, 233–249 (2018).
- Seshia Galvin, S.** The farming of trust: Organic certification and the limits of transparency in Uttarakhand, India. *American Ethnologist* 45, 495–507 (2018).
- Veland, S., **Scoville-Simonds, M.** et al. Narrative matters for sustainability: the transformative role of storytelling in realizing 1.5°C futures. *Current Opinion in Environmental Sustainability* 31, 41–47 (2018).
- Wurlod, J.-D. & **Noailly, J.** The impact of green innovation on energy intensity: An empirical analysis for 14 industrial sectors in OECD countries. *Energy Economics* 71, 47–61 (2018).

5.3. In press

Edited volume

Hecht S., (Editor), *Fire Ecologies in Tropical Science, Polemics, Politics and Practices*. Themed Issue Geographical Journal. (2019)

Book chapters

Andersen, M. and **Noailly, J.**, Innovation and environmental policy in the mining sector, in global challenges for innovation in the mining industries, Alica Daly, David Humphreys, Julio Raffo and Giulia Valacchi (eds.), Cambridge University Press, 2019

Doose, K., Oldfield, J.: Natural and anthropogenic climate change understanding in the Soviet Union, 1960s-1980s, in Ashe, T. & Poberezhskaya, M. *Climate change discourse in Russia past and present*. Routledge, London 2019

van der Marel, E., 'Problems and Progress in Combating IUU Fishing' in *Strengthening International Fisheries Law* (eds. E. J. Molenaar and R. Caddell) (Hart Publishing, forthcoming)

Pernet C.A., and **Ribi Forclaz, A.**, Introduction: Confronting a Hungry World: the United Nations Food and Agricultural Organization in a Historical Perspective, Special Issue of the *International History Review*, accepted (forthcoming)

Saab, A., *Narratives of Hunger in International Law: Feeding the World in Times of Climate Change* (in press at Cambridge University Press, expected April 2019)

Peer-reviewed articles

Andonova, L.B. and **Sun, Y.** Private Governance in Developing Countries: What Are the Drivers of Voluntary Carbon Offset Programs? *Global Environmental Politics*, 2019.

Doose, K., The Armenian Earthquake of 1988: A perfect stage for the Karabakh conflict. *Europe Asia Studies* (accepted)

Doose, K., Reclaiming Political Legitimacy. The Ecological Concessions of the Armenian Communist Party after 1988. *Ab imperio*.(accepted)

Hecht, S., The Scale of History, Reading Eric Wolf in the 21st Century. *Journal of Peasant Studies*, 2019.

Hecht, S., Firing up: Framing, polemics, policy and practices: The meaning of fire, its knowledge systems and its politics in Latin America. *Geographical Journal*, 2019.

Hecht, S., Rajao, R.G, From Darkest to Legal Amazonia: Rural Survey, TVA and the rise of the military tropics. *Land Use Policy*, 2019.

Hecht, S., Muir J., In the Amazon and Muirism in Amazonia. *John Muir Forum. The Annals of the American Association of Geographers*, 2019.

Hecht, S., Beyond Canudos: Euclides da Cunha and the Amazon, *Latin American Research Review*, 2019.

Hecht, S., Denevan, W.: Closet Theorist of Tropical Development In: Mathewson, K. and Winklerprin, A.: *Festschrift volume. Forest, Fallow, Terrace and Field*. Denevan, W.: *Cultural and Historical Ecology*. Special Publication of the American Association of Geographers, 2019.

Hecht, S., Tropical Utopias: Practical and Political Imagination in the New World Tropics, *American Sociology Association. Working title for President Panel volume: Imaginary Worlds to Material Realities*, 2019.

van der Marel, E., Guest editor of the Special Issue "External Challenges for the Common Fisheries Policy", *International Journal of Marine and Coastal Law* (forthcoming)

5.4. Research papers, policy papers and other publications

The economics related CIES Research Papers are published on the CIES website as well as on RePec, the largest repository of research papers in economics online.

5.4.1 CIES Publications

Research papers

Noailly J., Smeets R, Do financing constraints matter for the direction of technical change in energy R&D?, *CIES Research Papers* n.58, 12.2018

CIES Research Briefs

Kulamadayil, L., *Taking stock of International Law Responses to Resource Wars*, PhD Candidate in International Law, The Graduate Institute, Geneva, Switzerland, February 2018. *CIES Research Brief* 1, 2018.

CIES Policy briefs

Flannery, T., *The new US Tax Credits and Carbon Negative Technologies*, Segré Foundation Distinguished Visiting Professor, *CIES Policy Brief* 2. Spring 2018.

Ravetti, C., *The Perils of Development aid in resource-rich countries*, Visiting Fellow, Polytechnic of Turin. *CIES Policy Brief* 3, Autumn 2018.

5.4.2 Policy-oriented papers and other publications

- Gobeill, J., van den Heuvel, M., Nowzohour, L., Noailly, J., de Rassenfosse, G., Ruch, P., Apprentissage et classification automatiques pour améliorer la pertinence d'un corpus d'articles, in *Revue électronique suisse de science de l'information*, no 19, December 2018.
- Hecht, S., Land Use Politics Policy and Climate in Brazilian Amazonia, OECD, 2018
- Hecht, S., Swedish Agricultural University. Research Review, Uppsala Sweden, 2018
- Hecht, S., The Why and the What of Environmental History. The Globe. The Graduate Institute, Geneva, 2018.
- Piselli, D., Cultivating the Next Generation of Food Leaders: An Interview with Dario Piselli. Food Tank (2018).

Interview Conducted by Brian Frederick in July 2018.

- Piselli, D., Editor-in-chief of the 2018 edition of the Youth Solutions Report (SDSN Youth). Citation: SDSN Youth (2018). Youth Solutions Report - 2nd edition. New York, NY, USA and Paris, France: Sustainable Development Solutions Network - Youth.
- Piselli, D., Goal-setting in an era of mass extinction: a planetary boundary for biosphere integrity in international biodiversity law?' (EJIL:Talk!, 29 December 2018), blog on the European Journal of International Law.

5.5. Papers presented and talks at conferences by CIES researchers

- Andonova L.B., Why international organizations innovate? Climate finance under the World Bank and the UNFCCC, Swiss Political Science Association annual meeting, co-organizer of the environment and development section. UNIGE Geneva, February, 2018.
- Andonova L.B., Governance Entrepreneurs, International Studies Association Convention, San Francisco, April 2018
- Andonova L.B., Faul, M., Global Partnerships and Power panel, International Studies Association Convention, San Francisco, April 2018
- Andonova L.B., Governance Entrepreneurs, International Organizations and the Rise of Global Public-Private Partnerships. Hochschule für Politik München TUM School of Governance Chair of European and Global Governance, June 2018
- Andonova L.B., Regulations for a Clean Future (Moderator), Monaco Transition Forum, Monaco, June 2018.
- Andonova L.B., Global partnerships and how they are changing international governance (lecture), Technical University of Munich School of Governance, June 2018.
- Andonova L.B., Why International Organizations Innovate? Public-Private Partnerships and Climate Finance, Annual Meeting of American Political Science Association, August and September 2018.
- Andonova L.B., Governance Entrepreneurs and presentation of the Graduate Institute's Interdisciplinary programs and their Environment, Resources and Sustainability track, Harvard Kennedy School of Government, Boston, USA, September 2018.
- Andonova L.B., Governance Entrepreneurs and presentation of the Graduate Institute's Interdisciplinary programs and their Environment, Resources and Sustainability track, American University, Washington D.C, USA, September 2018.
- Andonova L.B., Governance Entrepreneurs and presentation of the Graduate Institute's Interdisciplinary programs and their Environment, Resources and Sustainability track, The United Nations Foundation and the IHEID Alumnae Club of New York, co-hosted with support by the Swiss Mission to the UN, NYC, USA, September 2018.
- Andonova L.B., Governance Entrepreneurs and presentation of the Graduate Institute's Interdisciplinary programs and their Environment, Resources and Sustainability track, Colby College, USA, September 2018.
- Andonova L.B., Governance Entrepreneurs and presentation of the Graduate Institute's Interdisciplinary programs and their Environment, Resources and Sustainability track, McGill University, Montreal, Canada, September 2018.
- Andonova L.B., Public-Private Partnership Partnerships for Health. What Role for the WHO? Presentation at the Global Health Center seminar, The Graduate Institute, Geneva. April 2018
- Doose, K., From Changing the Climate to Climate Change – Soviet Climate Science during the Cold War, Pierre du Bois conference on Environmental History, Geneva, Switzerland, October 2018.
- Doose, K., Climate change research during the Cold War – a global problem for a divided world. Environmental Science diplomacy between East and West, 1972-1991, Berlin Freie Universität/Max-Planck Institute, Berlin, Germany, November 2018.
- Doose, K., Governing the warmth, calculating the dry: the response to global climate change in Soviet policies and science, 1960s-1990s, Nottingham University, UK, November 2018.

- Doose, K.**, Negotiating Climate Change Research. Science Diplomacy during the Cold War, 1972-1991, CIES lunch talk, Geneva, The Graduate Institute, December 2018.
- Doose, K.**, Climate change research during the Cold War – a global problem for a divided world, 1972-1991, Royal Geographical Society, London, UK, December 2018.
- Galvin S.S.**, Environmental History as if the Future Mattered: Writing the History and the Future of the Anthropocene, Pierre du Bois Annual Conference, Geneva, October 2018.
- Galvin S.S.**, Sustainable Agriculture and Smallholder Farmers: Organic Standards and Certification in Uttarakhand, India and dialogue with François Pythoud, President of the Committee on Agriculture, FAO, Cycle de Conférences Alimentation “Qu’est-ce qu’on mange demain?” Université de Fribourg, Faculté des Lettres et Des Sciences Humaines, November 2018.
- Galvin S.S.**, Becoming Basmati: Rice Vitality and Standardization in Uttarakhand, India, 117th meeting of the American Anthropological Association, San Jose, California, November 2018.
- Galvin S.S.**, Is the Transition Over?, Institute for Human Sciences conference, The Graduate Institute, Geneva, December 2018.
- Hecht S.**, Breakthrough Collaborative: What the past can help us with the future, Breakthrough Institute, June 2018.
- Hecht S.**, Writing the History of the Future, European International University, Florence, Italy, June 2018
- Hecht S.**, Keynote Speaker: The Thirty Years War: Ethnobiology in Amazonia, International Congress of Ethnobiology, Belem, Brazil, August 2018
- Hecht S.**, Brazil Russia India China South Africa (BRICS) Conference on Alternative Agriculture, Brasilia, Brazil, November 2018.
- Hollway J.**, Conditions for novelty, Bremen University, January 2018.
- Hollway J.**, Multilevel network dynamics, Linköping University, February 2018.
- Hollway J.**, Beyond biodiversity beyond national jurisdiction, International Studies Association Conference, San Francisco, April 2018.
- Hollway J.**, Dynamic network modeling, International Network for Social Network Analysis Conference, Utrecht, June and July 2018.
- Hollway J.**, Multilevel network dynamics, International Network for Social Network Analysis Conference, Utrecht, June and July 2018.
- Hollway J.**, Measuring the topology of complexity, European Consortium for Political Research Conference, Hamburg, September 2018.
- Hollway J.**, Beyond biodiversity beyond national jurisdiction, Earth System Governance Conference, Utrecht, November 2018.
- Van der Marel, E.**, Conference “External Challenges for the Common Fisheries Policy”, 11 May 2018, University of Edinburgh, UK (panel discussant)
- Van der Marel, E.**, The EU IUU Regulation and combating IUU fishing, Gulf of Thailand Initiative Commanders Forum, 11-13 December 2019, Bangkok, Thailand.
- Naso, P.**, Can There Be Benefits from Competing Legal Regimes? The impact of legal pluralism in post-conflict Sierra Leone, Centre for the Study of African Economies (CSAE) Conference 2018: Economic Development in Africa, University of Oxford, UK, March 2018.
- Naso, P.**, Spatial Development, Environmental Regulation and Productivity: The Porter Hypothesis Goes to China, Monte Verità Conference on Sustainable Resource Use and Economic Dynamics, Ascona, Switzerland, June 2018.
- Naso, P.**, Spatial Development, Environmental Regulation and Productivity: The Porter Hypothesis Goes to China, World Congress of Environmental and Resource Economics, Gothenburg, June 2018.
- Naso, P.**, Spatial Development, Environmental Regulation and Productivity: The Porter Hypothesis Goes to China, French Association of Environmental and Resource Economists 5th Annual Conference, Aix-en-Provence, France, August 2018.
- Naso, P.**, Environmental Regulation in a Transitional Political System: Delegation of Regulation and Perceived Corruption in South Africa, Gerzensee Alumni Conference, October 2018.
- Noailly, J.**, Financing investment in clean technologies, Meeting NRP73 on Sustainable Economy, Nottwill, Switzerland, January 2018.
- Noailly, J.**, Financing Energy Innovation: Financing Constraints and Directed Technical Change from Fossil-Fuel to Renewable Innovation, World Congress of Environmental and Resource Economics, Special thematic session on “Financing Energy Innovation: What Works and Redirects?”, Gothenburg, June 2018.
- Noailly, J.**, Meet the CIES’ Presentation, Visit of the Earth System Governance (ESG) Network, The Graduate Institute, Geneva, Switzerland, May 2018.
- Noailly, J.**, Do financing constraints matter for the direction of technical change in energy R&D?, World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 2018.
- Nowzohour, L.**, Financing Investments in Clean Technologies, NRP73 PhD Community, Sportchalet, Mürren, Switzerland, October 2018.
- Nowzohour, L.**, OECD PINE database, NRP73 Partners meeting, Geneva, October 2018.
- Nowzohour, L.**, Financing Investments in Clean Technologies, NRP73 Partners meeting, Geneva, Switzerland, October 2018.
- Piselli, D.**, International biodiversity law in the age of planetary boundaries: legal innovation to confront global environmental change across scales, 16th Annual Colloquium of the IUCN Academy of Environmental Law, Glasgow, UK, July 2018.

Saab, A., Feeding the World in Times of Climate Change, Transnational Legal Theory Symposium on 'Transnational Food Security', King's College, London, January 2018.

Scoville-Simonds, M., Adaptation, contestation, resistance, POLLEN18, OsloMet, Oslo, June 2018.

Scoville-Simonds, M., From anthropogenic to indigenic climate change – The translation of global adaptation discourses into project realities, Development Research Conference (DEVRES), School of Global Studies, University of Gothenburg, August 2018.

Sun, Y., Fertile Ground Without Seeds: Re-visiting Limitations of Transnational Sustainability Governance in China's Tea Sector, Swiss Political Science Association Annual Conference, Geneva, February 2018.

Sun, Y., Fertile Ground Without Seeds: Re-visiting Limitations of Transnational Sustainability Governance in China's Tea Sector, International Studies Association

Annual Convention, San Francisco, April 2018.

Sun, Y., & van der Ven, H. Swimming in their Own Direction: Explaining Domestic Variation in Sustainability Governance for Aquaculture in Asia. Workshop "Sustainable Commodity Governance and the Global South", San Francisco, April 2018.

Swanson, T., Conservation for the 21st C. Conservation Policy in a Technology Driven World, 20th Annual BioEcon Conference, Cambridge, September 2018.

Swanson, T., Malthusianism in the 21st Century – Resource Constraints in an Era of Declining Population Growth, The New Malthusianism: A Symposium, Cambridge, December 2018.

Tyack, N., Local innovators in Uganda: Experimenting with improved seeds in a low adoption environment, 20th BioEcon conference, Cambridge, UK, September 2018.

5.6 Academic Workshops organised by CIES faculty members

Doose, K., Cold War and Environmental Sciences:

Circulations, exchanges and cooperation between the East and the West, 1950s-1990s, the Royal Geographical Society, London, UK, December 2018.

Galvin S. S., Boring Stuff? Mundane Matters in an Age of Liveliness. Co-organizer of panel at the 117th meeting of the American Anthropological Association, San Jose California, November 2018.

Hecht, S., Environmental History as if the Future Mattered: Writing the History and the Future of the Anthropocene. Pierre du Bois Annual Conference, Geneva, October 2018. (See Image 3)

Hollway, J., UNEP GEO Authors Meeting, Presentation of "Oceans policy effectiveness" and "Policy integration and coherence", Singapore, February 2018.

Sun, Y., Sustainable Commodity Governance and the Global South Workshop, San Francisco, April 2018.



Image 3 – Susanna Hecht, Liliana Andonova and Katja Doose at the Pierre du Bois Conference

6. Events

6.1. The Geneva Dialogues on global environmental problems

The Geneva Dialogues are a series of keynote speeches by leading academics bridging research and policy on a given theme. Attendees are made up in equal number from the Institute's faculty and student body and from international organisations, including international NGOs. The purpose of inviting these lecturers, in addition to presenting an

interesting subject with insight from their specialty, has been also to forge connections with CIES members in their field of expertise.



TIM FLANNERY, 23 April 2018

Foundation Segré Distinguished Visiting Professor

“Land at the Crossroads: an Ecological History of Europe”

The first distinctively European organisms evolved around 100 million years ago, on the tropical island archipelago that was destined to become Europe. Some of those first European organisms survive today. For most of its history, Europe has lain at the intersection of Asia, Africa and North America - together comprising around two thirds of the world's landmass. It has played a crucial role in the evolution of many groups, including our own lineage, the hominids. The Europeans arose around 38,000 years ago, when a group of humans from Africa began to hybridise with Neanderthals. The hybrid population had unusual characteristics, and quickly displaced the Neanderthals in Europe.

Subsequently, Europe has experienced many waves of human migration, each one of which has profoundly affected the land and its biodiversity. Today some Europeans are trying to re-establish a wild Europe. But where should they look to for inspiration? Drawing on the new upcoming book of Professor Tim Flannery, this public lecture offered some surprising answers to this question.

→ Moderator: **LILIANA ANDONOVA**, Professor, International Relations / Political Science and Co-Director, Centre for International Environmental Studies, The Graduate Institute, Geneva. Attendance: 62



MATTHEW HOFFMAN, 1 November 2018

Foundation Segré Distinguished Visiting Professor

“New dynamics for climate action”

The Paris Agreement has ushered in a new era for the global response to climate change. The international community and scholarly world came to understand that the problem of climate change did not fit with traditional and familiar top-down cooperation efforts. The change to a bottom-up, national policy-centred approach has generated a good deal of hope, but also uncertainty around the achievement of collective goals through decentralised actions. In this talk, Professor Matthew Hoffmann proposed a way to reorient thinking on the global response to climate change, focusing specifically on decarbonisation goals.

→ Moderator: **LILIANA ANDONOVA**, Professor, International Relations / Political Science and Co-Director, Centre for International Environmental Studies, The Graduate Institute, Geneva. Attendance: 98

6.2. Academic conferences, symposiums and workshops

6.2.1 Academic conferences and workshops organised by CIES

The Future of Global Governance workshop, 8 February 2018

The US has withdrawn from the Paris Climate Agreement and President Trump is questioning the contribution of the US to the UN; the negotiating wing of the WTO is paralysed and the dispute settlement arm is stagnating. Yet to what extent does this apparent 'crisis' or 'questioning' of traditional multilateralism by international organisations create a space for new mechanisms of governance, from partnerships, to private regulators, NGOs and networks? Are we witnessing a transformation of global governance? What kinds of actors could fill the gaps in resources and leadership if we are witnessing a hegemonic withdrawal? In short, what might the future of global governance look like?

→ Organiser: **LILIANA ANDONOVA**

→ Attendance: 81

NRP 73 "Financing Investment in Clean Technologies" first Partners Meeting, 16 October 2018

This first partners' meeting, located in Geneva, brought together the project's implementation partners from across eight organisations, representing various groups from policymaking organisations (OECD, GGKP), financial institutions (Jadeberg partners, CleanTech Capital, Emerald Technology Ventures) and cleantech companies (Carbon Delta, Switzerland G-E, Cleantech Alps). The first objective of the meeting was to introduce the project goals and the team of researchers, and to present ongoing research activities to our partners. The second objective of the meeting was to discuss what a successful implementation and practical applications of our results would look like. How can policy, financial or business organisations use our research findings to

improve their decision-making? What types of output or deliverables can we use to maximise the impact of our research? Finally, the workshop was an opportunity to hear about partners' expectations in terms of communication about research progress, periodic exchanges, types of outputs delivered, timelines, potential risks, etc.

→ Organiser: **JOËLLE NOAILLY**

→ Attendance: 15

"The New Malthusianism: A Symposium", MAVA's project The Human Niche final workshop at Jesus College 11-13 December 2018 (See Image 4)

Recent studies project populations reaching levels of 12-14 billion individuals by the end of the century. This raises a set of questions regarding food security, pandemic threats, and environmental crisis. These issues relate back to Thomas Malthus and the concerns he raised relating to resource scarcity and human population levels, and the interaction between these. On the occasion of the 220th anniversary of Malthus' Essay on Population, a small workshop was organised at his Cambridge College to consider more recent explorations of Malthus and Malthusianism. Twenty participants were invited to present papers addressing an issue arising out of Malthusian thought – motivated by current studies, new projections or historical data. The symposium convened a group of economic historians, population/land use modellers, growth theorists, and resource economists – with the objective of considering whether there are new or current insights to be derived from more recent studies related to Malthusianism.

A selection of papers from the meeting will be submitted for consideration for publication in a special issue of the European Economic Review on "The New Malthusianism".

→ Organiser: **TIM SWANSON**

→ Attendance: 48



Image 4 - Timothy Swanson at the New Malthusianism Symposium, Jesus College, Cambridge, 11-13 December 2018.

6.2.2 Academic conferences co-sponsored by CIES

In 2018, the CIES once again co-sponsored the BIOECON conference, which was held in King's College, Cambridge, United Kingdom. The main theme of the conference this year was 'Land-use, Agriculture and Biodiversity: Spatial and Temporal Issues.'

BioEcon XXth annual conference's Parallel Workshop "**Land Use Conservation in the 21st Century. Population, Development and Global Public Goods**", 13 September 2018, King's College, Cambridge, United Kingdom.

Over the course of this century the global population is projected to increase from about eight billion to around twelve to fourteen billion. Significant movements of people continue, in terms of migration and urbanisation, especially in the developing world. The current land used in agriculture is estimated to be around 1.6 billion hectares, and the entire arable land potentially available for agriculture is estimated to be about 2.1 billion hectares. Developing countries continue to convert land to agriculture, while developed countries have reduced the lands allocated to food production. Technical change and economic restructuring over coming decades will be important for determining how and where people will live and work, and how they will subsist, especially in regard to food security. These various factors and projections indicate that a very different world may be coming into existence over the course of this century, in terms of population growth and location, economic development and structural change, urbanisation and land use. The issue of managing global land use against these background trends requires consideration of how public good objectives (conservation of land for public good provision such as climate and biodiversity) will coexist with the needs of the population (food security, growth and development) against these background trends.

- Organiser: **TIMOTHY SWANSON**
- Attendance: 250

6.2.3 Other policy and public events co-organised by CIES and/or with the participation of CIES faculty

Green industrial policies for transformative change, 22 February 2018, CIES panel discussion. This event was organised in collaboration with the UN Environment and the Partnership for Action on Green Economy (PAGE).

The CIES was delighted to partner with the Partnership for Action on Green Economy (PAGE) at the occasion of the launch of its three publications on green industrial policy: "Green Industrial Policy and Trade: A Toolbox", "Practitioner's Guide to Strategic Green Industrial Policy", and "Green Industrial Policy: Concept, Policies, Country Experiences". In light of the urgency to shift the economy to a sustainable pathway, green industrial policies are proposed as a way to accelerate transformative change. During a panel discussion, speakers discussed the potential of green industrial policy to support an inclusive green economy transition, drawing on the insights from the three publications developed by PAGE and country-level policy experience.

- Organiser: **LILIANA ANDONOVA**
- Attendance: 81

"Drawdown – Can global warming be reversed?", 24 April 2018, CIES panel discussion. This event was organised in collaboration with the World Business Council for Sustainable Development (WBCSD).

This panel discussion focused on a provocative question, "Can trade in wildlife ensure its survival?". There is no question that trade in plants and animals dates back as long as trade itself. Humans are dependent on nature for survival. But what about the survival of the plants and animals on which we depend? We are in an unprecedented period of biodiversity loss, which some commentators refer to as the sixth great extinction. There are laws and institutions in place to ensure the sustainability of wildlife. But are they enough? What are the impacts of trade on wildlife? Can trade in wildlife be sustainable?

- Panel: Chad Frieschmann, Research Director, Project Drawdown; Prof. Tim Falnery, Fondation Segré Distinguished Visiting Professor, CIES, Graduate Institute, Maria Mendiluce, Managing Director, World Business Council for Sustainable Development.
- Organiser and welcome address: **JOËLLE NOAILLY**, Head of Research, CIES.
- Moderator: John Moorhead, Founder of Science Based Solutions.
- Attendance: 63

Earth System Government (ESG) Study Visit to Geneva, CIES workshop, 30 May 2018. (See image 5)

On 30 May 2018 a delegation of junior researchers affiliated with the Earth System Governance (ESG) project, the largest social science research network in the area of governance and global environmental change, visited the Graduate Institute. The Centre of International Environmental Studies (CIES) hosted a workshop to facilitate exchange between the ESG visitors and the Institute's researchers working on environmental governance.

In the workshop, Dr Joelle Noailly and Dr Velibor Jakovleski introduced research at the Institute's CIES and Global Governance Centre respectively, and both noted the need to explore further collaboration between their centres and the ESG network. Dr Karsten Schulz, from the University of Groningen, presented the ESG project including its current research agenda and new science plan. Gianluca Gygax, the President of the Environmental Committee at the Graduate Institute, presented students' initiatives to promote sustainability on campus. The two ESG fellows at the Graduate Institute, Dr James Hollway and Yixian Sun discussed their research on earth system governance and benefits from the ESG network. Two ESG visitors and three PhD students at the Graduate Institute also gave presentations on their research and received feedback from other participants. With the success of this event, CIES looks forward to strengthening connections between the Institute's research community and the ESG network.

- Organisers: **JOËLLE NOAILLY, YIXIAN SUN, JAMES HOLLWAY**
- Attendance: 15



Image 5 – ESG group visit hosted by CIES on 30 May

“Does our Alarming Climate Crisis Demand Border Adjustments Now?” CIES Public Lecture of Professor John Odell, Professor Emeritus of International Relations with the University of Southern California, 26 June 2018. This event was organised in collaboration with the Centre for Trade and Economic Integration (CTEI)

While the universally endorsed and widely ratified Paris Agreement of the United Nations Framework Convention on Climate Change aims to limit temperature increases to well below 2°C above pre-industrial levels, recent estimates indicate that countries’ current added mitigation pledges only cover a third of the emissions reductions needed to achieve this goal. One proposed tool, which would allow countries to scale up climate action at home without risking seeing their efforts undermined by carbon leakage is border carbon adjustment. While such measures have so far not been put into practice, the current climate urgency combined with the fact that the world’s largest economy and second largest emitter is now choosing to step aside has led John Odell, Professor Emeritus of International Relations with the University of Southern California, to revisit the border carbon adjustment topic.

At this talk, he explained what a border carbon adjustment could look like if it is to be effective, compatible with the rules of the World Trade Organization and sensitive to development considerations. These ideas are further elaborated in his recent Think Piece for ICTSD.

- Organisers: **THERESA CARPENTER (CTEI), CO-SPONSORED BY CIES**
- Attendance: 52

“Innovating for the Future of Energy”, CIES Policy event, 29 October 2018. This event was organised in collaboration with the World Intellectual Property Organization (WIPO). (See image 6)

Meeting future global energy needs and addressing climate change will require an acceleration of innovation in energy technologies. How can we win the race to a clean and sustainable energy future both in developed and developing countries contexts?

The World Intellectual Property Organization (WIPO) and the Centre for International Environmental Studies at the Graduate Institute presented The Global Innovation Index (GII) 2018, and welcomed a panel discussion on the future of energy innovation.

Panel: **Bruno Lanvin**, Executive Director of Global Indices at INSEAD, **Brindusa Burrows**, CEO & Founder, The Ground Up Project, **Joëlle Noailly**, Head of Research, Centre for International Environmental Studies, The Graduate Institute, Geneva, **Carlo Papa**, Director, Enel Foundation, **Norbert Schwieters**, Partner, Global Leader Energy, Utilities & Resources, PwC, **H.E. Omar Zniber**, Ambassador, Permanent Representative of the Kingdom of Morocco to the United Nations Office at Geneva and other International Organisations in Switzerland, Chair: **Francis Gurry**, Director General, WIPO, Introductory remarks: **Philippe Burrin**, Director, The Graduate Institute, Geneva.

- Organisers: **JOËLLE NOAILLY, CO-ORGANISED WITH WIPO**
- Attendance: 258

and the ecosystems on which they depend. This conversation examined the need for bold leadership to secure a healthy 2020-2030 decade. If we get biodiversity right, we can get 2030 right.

- Moderator: **LILIANA ANDONOVA**
- Attendance: 436

“Reaping what they sow: mobilising farmers to help the planet and themselves”, Lunch Briefing by Tony Rinaudo, Australian agronomist awarded the 2018 Right Livelihood Award. 27 November 2018.

Due to the important role of forests in reducing the risk of natural disasters and sequestering carbon dioxide, restoring dry lands could prove essential in combating climate change, poverty and hunger.

But is there any solution out there that allows us to restore dry lands in a cost-effective manner? Tony Rinaudo explained Farmer Managed Natural Regeneration (FMNR), a low-cost land restoration technique used to combat poverty and hunger amongst poor subsistence farmers by increasing their food and timber production and resilience to climate extremes.

- Moderator: **SUSANNA HECHT**
- Attendance: 41

6.3. Seminars in Environmental and Resource Economics

The aim of the seminar series in Environmental and Resource Economics is to bring top scholars in Europe to CIES to give guest lectures on their recent research or research in progress. There were 7 seminars this year with approximately 10-20 attendees per lecture.

- **DOUGLAS GOLLIN**, Professor of Development Economics, University of Oxford, “Heterogeneity, Measurement Error, and Misallocation: Evidence from African Agriculture”, 8 March 2018.
- **TIMO GOESCHL**, Chair of Environmental Economics, Alfred-Weber-Institute for Economics, Heidelberg University, “Supply-side labelling of consumer durables: In-accuracies in EU energy efficiency labels”, 15 March 2018.
- **CAROL NEWMAN**, Professor in Economics at the Department of Economics, Trinity College Dublin, “So fresh and so clean: urban community engagement to improve the sustainability of drainage infrastructure”, 24 May 2018.
- **FERDINAND VIEIDER**, Professor in Economics, University of Reading, “Growth, entrepreneurship, and risk-tolerance: a risk-income paradox”, 11 October 2018.
- **CHIARA RAVETTI**, Visiting Fellow at the Department of Management Engineering of the Polytechnic of Torino (IT), “Oil and the gender wage gap: evidence from Norway”, 18 October 2018.
- **MARKUS LUDWIG**, Postdoctoral Researcher at University of Bayreuth, “Ebola and state legitimacy”, 25 October 2018.
- **ROLAND HODLER**, Professor of Economics, University of St.Gallen (CH), “Religiosity and Terrorism: Evidence from Ramadan Fasting”, 8 November 2018.

6.4. CIES lunch seminars

The CIES lunch seminars series is a means for CIES researchers and external researchers to present and share research in progress. The series has also served as a way for CIES to promote itself within the Graduate Institute community. The series is organised by an interdisciplinary group of scholars; Shaila Seshia Galvin (ANSO), Anne Saab (International Law) and Joëlle Noailly (International Economics). In 2018, 14 seminars were held, which were attended on average by 10-30 students and faculty.

- **KARINE PESCHARD**, Albert Hirschman Centre on Democracy, the Graduate Institute
8 March 2018
“Nothing patent’: Legal activism around intellectual property and biotech seeds in Brazil and India”
- **ELLEN HOLMAAT**, PhD Candidate in PS/IR, Graduate Institute
22 March 2018
“Variety of private sustainability standards: A club theory approach”
- **STEVEN RAMAGE**, Head of External Relations Group on Earth Observations (GEO)
12 April 2018
“The power of location for environmental monitoring and decision making”
- **LUKAS FESENFELD**, PhD Candidate in International Political Economy, ETH Zurich
26 April 2018
“Beyond consumerism: Examining how policy framing affects citizens’ willingness to reduce meat consumption and car use in China, Germany, and the US”
- **TIM FLANNERY**, Segré Foundation Distinguished Visiting Professor
17 May 2018
“Macroalgae as a carbon sequestration tool”

- MEENAKSHI NAIR AMBUJAM, PhD candidate in ANSO, Graduate Institute
24 May 2018
“Paper truths, lands and claims: Rethinking restitution in Adivasi life, India”
- KSENIA TATARCHENKO, Lecturer at the Institute of Global Studies, University of Geneva
20 September 2018
“The Thaw in the Pole: Cold War Science and Showcasing at the Siberian Science-city and Antarctic Expeditions (1955-1964)”
- CHRISTOPHE GIRONDE, Senior Lecturer, Development studies, the Graduate Institute
11 October 2018
“Land grabs and livelihood sustainability in Cambodia”
- CHRISTIAN BRÉTHAUT, Assistant Professor at the Institute for Environmental Sciences, University of Geneva
18 October 2018
“Power dynamics and integration in the water-energy-food nexus”
- BENJAMIN SIMMONS, founding Head of the Green Growth Knowledge Platform (GGKP), Geneva
15 November 2018
“Hammer and nails - the promise and pitfalls of pursuing global collaboration for a green economy”
- LARA FORNABAIO, Legal Intern, Centre for International Environment Law, Geneva
22 November 2018
“Reconnecting people and land: country of origin labeling beyond food safety”
- SAE HALDULE, PhD Candidate in the Junior Research Group of the Cluster of Excellence at the University of Heidelberg
29 November 2018
“The Orontes river basin: in and post-conflict challenges «Seed Custodians» and the cultural politics of alternative seed networks in Maharashtra (India)”labeling beyond food safety”
- CHRISTINE LUTRINGER, Senior Researcher and Executive Director, Albert Hirschman Centre on Democracy, the Graduate Institute
6 December 2018
“How not to waste a garbage crisis: civic activism in Bangalore, India”
- KATJA DOOSE, University of Birmingham, Russian Environmental Studies, CIES Visiting Fellow
13 December 2018
“Negotiating climate change research. Science diplomacy during the Cold War, 1972-1991”

7. Professional Training

Given its research mandate, CIES does not engage in the organisation of the Executive Education programmes. Yet, CIES faculty members regularly contribute to the Executive Education programme. In 2018, the following trainings were given:

- ANNE SAAB, LL.M Programme in International Law, “Seed Wars - Intellectual Property and Agriculture”
- SHAILA SESHIA GALVIN, the Environmental Governance programme, “Topics and Debates in Sustainable Agriculture.”



8. Public Impact

CIES associated faculty members regularly intervene or are mentioned in local and international media. In 2018, CIES members were featured in the following media news:

- RTS, 08.01.2018, L'année électorale 2018 sera cruciale en Amérique latine, MARC HUFTY
- Geneva Environment Network, 26.02.2018, Festival du Film Vert - Land Grabbing, CHRISTOPHE GIRONDE
- La Liberté, 19.04.2018, Encore un fidèle au pouvoir à Cuba, MARC HUFTY
- RTS, 07.06.2018, Les manifestations contre le régime au Nicaragua choquent par leur violence, MARC HUFTY
- RTS, 27.08.2018, Les implications régionales de la crise au Venezuela analysées par Marc Hufty, MARC HUFTY
- Economie vraie et réelle, 24.09.2018, L'île d'El Hierro aux Canaries bataille pour une énergie 100% verte à base de vent et d'eau, JOËLLE NOAILLY
- Academic Council on the United Nations System, 25.09.2018, Governance Entrepreneurs, LILIANA ANDONOVA
- The International Union for Conservation of Nature (IUCN), 23.10.2017, Nature's contribution to sustainable development, LILIANA ANDONOVA
- Le Matin [Maroc], 30.10.2018, Energies renouvelables : le modèle marocain mis en exergue à Genève, JOËLLE NOAILLY
- UnB Noticias, 12.11.2018, 6ª Conferência Internacional da Iniciativa BRICS para Estudos Agrários Críticos (BICAS), SUSANNA HECHT

9. Relationship with International Geneva

The CIES maintains important relationships with many organisations part of International Geneva. CIES researchers partner with international organisations and policy bodies on specific projects or events.

In 2018, CIES worked together with UN Environment, the World Intellectual Property Organization (WIPO) and the Green Growth Knowledge Platform (GGKP) to co-organise academic and policy events (see Section 6.2.2). Several international organisations are also active partners in CIES research projects: WEF and UNICEF (SNIS- “Effectiveness of partnerships for advancing the SDGs”, Prof Liliana Andonova); OECD and GGKP (NRP73 – “Financing clean tech”, Dr Joelle Noailly).

In addition, CIES researchers are regularly approached individually to participate in panel discussions and other policy-related events. This year, Prof Andonova contributed to several events on the international policy scene (The United Nations Foundation and the IHEID Alumnae Club of New York, Monaco Transition Forum, etc.)

Joëlle Noailly and James Hollway participated in the workshop on Environmental Policy indicators organised by the Green Growth Knowledge Platform in January 2018, and Joelle Noailly was involved in the workshop on Global Innovation by the Mining Industry organised by WIPO.

This year we particularly reinforced our links with the World Business Council for Sustainable Development (WBCSD) via the collaboration on the “Drawdown” event. In addition, Dr Maria Mendiluce, Managing Director (see box 2), Climate, Energy and Circular Economy at WBCSD kindly accepted to join the CIES Advisory Board as of 2019.

Box 2 – Dr Maria Mendiluce as new CIES Advisory Board member



Dr María Mendiluce is the Managing Director, Climate, Energy and Circular Economy at the World Business Council for Sustainable Development (WBCSD). She has over 20 years of experience in the energy and climate area. Since 2008, María has led the implementation of WBCSD’s Climate and Energy strategy, guiding the work of over 200 member companies to influence the global climate landscape. María managed the development of the Low Carbon Technology Partnerships initiative, one of the flagship projects leading up to the success of COP21. She created WBCSD’s new programme on circular economy, and is now developing the new strategy for transport and cities. Prior to joining WBCSD, María held different roles at the International Energy Agency (Paris), Iberdrola and the Economic Bureau of the Spanish Prime Minister (Spain). María teaches at the University of Geneva, coaches students and is recognised for her contributions to scientific journals and international conferences.

(source: <http://www.wbcd.org>)

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