

THE
GRADUATE
INSTITUTE
GENEVA

CENTRE FOR
INTERNATIONAL
ENVIRONMENTAL
STUDIES



CIES Annual Report 2020

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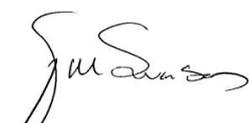
1. Overview of major accomplishments and developments



Despite 2020's myriad challenges due to the Covid-pandemic, this Annual Report 2020 attests how hard CIES scholars have worked to make progress on their research on global environmental issues. Next to ongoing projects, our CIES faculty members have also applied their expertise to the Covid-19 crisis. A few weeks into the first phase of the pandemic in Europe, we produced blog posts, podcasts, seminars, interviews in the press, and policy events to reflect on Covid-19 impact on the global environment. Our researchers had to start working remotely and our administrative team had to quickly adapt to this new reality to maintain our stream of activities.

Despite these challenges, the CIES administrative team continued their terrific work in supporting researchers to file research proposals during these exceptional times and 9 research proposals were submitted, out of which 5 were successfully awarded. Among the highlights of this year, we were thrilled to hear about the EUR 1.5 million ERC Grant awarded to Filipe Calvao, Associate Professor in ANSO on the "Future of Mining". We very much look forward to developing this new area of research with him and his team over the coming years. Our Research Programme on 'Agrarian Environment and Food Systems' initiated a few years ago will also generate much activity in the future thanks to the SNF grant on "Accounting for Nature: Agriculture and Mitigation in the Era of Global Climate Change" awarded to Shaila Seshia Galvin.

The year 2021 promises to be one of new beginnings. Under the leadership of the newly appointed Director of the Graduate Institute, Marie-Laure Salles, the CIES will get the opportunity to reflect on its identity and how it inscribes itself into the Graduate Institute collective project. This offers a renewed perspective for broadening our scope of activities. We will also continue our efforts to better communicate our research results to a broader audience – we launched a few months ago our first new CIES Publication Newsletter – and to pursue our mission to be a trusted resource of research on global environmental issues for the International Geneva community.


Tim Swanson
CIES Co-Director


Liliana Andonova
CIES Co-Director


Joëlle Noailly
CIES Head of Research

1.1 CIES Research Impact – The Human Niche project

CIES Research aims to have impact beyond academia. We present below some examples of how our latest research results resonate into society, policymaking, and business decision-making.



Population Growth, Food Security and Global Land Use: Policies that develop human lives also limit the conversion of lands

The “Human Niche Project” has been funded by the MAVA Foundation from the outset of the CIES in 2010. In recent months, the results of the project have been published in a number of important scientific journals: *International Economic Review*, *Ecological Economics*, *American Journal of Agricultural Economics*, and most recently in a Special Issue of the *European Economic Review* edited by Prof Tim Swanson.

This project demonstrated within a global economic growth model that the problems of food security, population growth and global land use were all closely related. Population growth has often been an engine for development and innovation, while also requiring the expansion of lands used in global agriculture. This project examined various policy approaches to encouraging the expansion of food production in the absence of increased land use. Counter-intuitively, many of these policies focused on issues of education and innovation, such as policies to increase employment opportunities for women or to reduce the employment of children.

This work was toured across all continents, including presentations in Brussels to the European Commission (jointly with the EU project on Global Food Security) and at the Headquarters of the IUCN in Gland. In the USA, the work was presented to the International Food Policy Research Institute, Washington DC (an IARC centre) and at the Gates Foundation for International Development. In Africa, the work was presented at the University of Cape Town, and in China it was presented at the Development Reform Centre at Beijing University.

In Geneva, these policies were discussed within an international broadcast at the Graduate Institute Geneva, in which the FAO Chief Economist spoke as well to the problem of “Food Security in the Time of COVID”.

All told, the Human Niche Project has generated a dozen scientific papers, and many more presentations and discussions. It has contributed to the discussion about how global land use policy should be conceived in the long run. And it has demonstrated that many of the most important policies regarding global land use are also about the improvement of conditions and livelihoods for peoples in the poorest and most populated parts of the world.

1.2 CIES Research Impact – Partnerships for the SDGs

CIES Research aims to have impact beyond academia. We present below some examples of how our latest research results resonate into society, policymaking, and business decision-making.



From their initial endorsement at the 2002 Johannesburg Summit to their role as key means of implementation of the 2030 Agenda for Sustainable Development, partnerships between public and non-State actors have emerged as a key form of governance as part of global efforts to eradicate poverty, ensure human health and well-being, and fight environmental degradation. The results from the CIES project “Partnerships for the SDGs” has thus broad appeal for international policy and practice. In this context, on 16 November 2020, a public policy event has been organised on *“Are Global Partnerships Effective in Advancing the Sustainable Development Goals?”* with the participation of Prof Liliana Andonova (Academic Co-Director, Centre for International Environmental Studies and coordinator of the project), Prof Gilles Carbonnier (Vice President of the International Committee of the Red Cross), Dario Piselli (Affiliated Research Student, Centre for International Environmental Studies), Axel Michaelowa (Head of Research, International Climate Policy, University of Zurich), Rolph Payet (Executive Secretary, Basel, Stockholm and Rotterdam Conventions), Juan Coderque (Head of New Financing Models Unit, International Committee of the Red Cross), and moderated by Moira Faul (Executive Director, Network for International Policies and Cooperation in Education and Training, NORRAG). The event gathered more than 100 participants from around the world (more details on p.26).

As over 5200 partnerships initiatives and voluntary commitments have been already registered as part of the United Nations’ Partnerships for the SDGs platform, the conceptual framework elaborated by the project could serve as the basis of a new policy tool for assessing partnership effects from an early phase, and along the dimensions that are most appropriate for each specific initiative.

The results provide overall consistent evidence on the importance of certain characteristics of the structuring of partnerships, including sophisticated contracting, credible commitment of resources, and adaptability, that are likely to work together if partnerships effectiveness is to be achieved and sustained. In suggesting that lack of partnership effectiveness may be a direct consequence of inefficient partnering processes, the findings of the project thus have direct implications for practitioners that are setting up and designing new partnership initiatives. For example, practitioners from international organisations may want to use governance arrangements that help sustain the partnerships over time, such as financing mechanisms that anticipate (and prepare for) a full transition to public financing, capacity-building of local administrators and bureaucracies, and mechanisms for the participation of affected communities and civil society in decision-making.

The results also suggest that existing monitoring and evaluation of partnership outcomes tend to fall short of addressing the link between such outcomes and the ultimate contribution of the partnership to problem-solving for the SDGs. The factors that are usually monitored and measured tend to address one specific dimension of effectiveness, which generally concerns nominal goal-attainment of creation of value for the partners. By contrast, the two areas where high-quality data is often limited are those relating the effects of partnerships on affected populations and to their spill-over effects on other initiatives and broader governance dynamics, both of which we regard as key dimensions of effectiveness. On the one hand, this warrants further effort by partnerships that have been implemented or those in the implementation and design phases to take these important aspects more explicitly into consideration. For example, the promotion of local livelihoods and socio-

economic components should be incorporated in all partnership strategies as a key driver of effectiveness, rather than as a complementary target. On the other hand, it calls for the development of innovative monitoring frameworks in which more fine-grained qualitative data is collected alongside the traditional reporting of project outcomes, in order to better measure effects of partnerships at the micro and macro-levels.

After the launch of its 'Partnerships for SDGs' platform, which gathers multi-stakeholder partnerships and voluntary commitments aimed at achieving the SDGs, the United Nations has focused on the creation of an enabling environment for partnerships that includes reviewing existing experiences, disseminating best practices, providing necessary training to public officials and building partnership skills and competences. Accordingly, the comparative insights and policy implications of the project (e.g. in terms of partnership design, evaluation and reform) are likely to be relevant for practitioners and private actors who engage in transnational networks and collaborative partnerships for sustainable development in different countries and in international organizations.

Finally, the main publication arising from the project, an edited volume on *Partnerships for Sustainability: Pathways to Effectiveness*, will hopefully provide an important teaching tool in the fields of international relations, development studies, environmental studies, business administration, public policy and other high-level interdisciplinary programs focusing on global politics, global governance and sustainable development issues.

1.3 Awards

The academic expertise of CIES researchers is widely recognised as attested by prizes, awards and other distinctions:

- **Joëlle Noailly:** Subaward Economics of Innovation in the Energy Sector, 2020, \$2,500, NBER, MIT, Boston.
- **Susanna Hecht:** Interdisciplinary UCLA Campus Award: Culture and Climate Change. 2020.
- **James Hollway:** AAP Prose Award for Environmental Science (for GEO-6), 2020.
- **Eva Bortolotti** and **Bettina Kast:** Sawtooth Software Academic award.

1.4 CIES and teaching at the Graduate Institute



CIES faculty have contributed through their teaching to the creation of a strong interdisciplinary track on Environment Resources and Sustainability, offering a Master in International Affairs, and a Master in International Development. In 2020, the Interdisciplinary Masters Programmes were headed by CIES faculty Prof. Liliana Andonova and the Environment Resources and Sustainability Track was overseen by Prof. Susanna Hecht. The list below provides examples of courses by CIES faculty regularly taught in the Interdisciplinary programmes:

- Political Ecology (Marc Hufty)
- Social Movements and the Environment (Marc Hufty)
- Biodiversité : entre science et politique (Marc Hufty)
- Agrarian Transformation and Mobilization: Land, Labour, and Technology (Amalia Ribí-Forlcaz)
- Governance of Environment and Sustainability (Liliana Andonova)
- Global Environmental Governance; Politics and History (Liliana Andonova and Katja Doose)
- Global Food Systems from a Legal Perspective (Anne Saab)
- Climate Change and International Law (Anne Saab)
- International Environmental Institutions (James Hollway)
- Agrarian Worlds: Practice, Power, Place (Shaila Seshia Galvin)
- Environmental Economics and Policy (Joëlle Noailly)
- Topics in Resource and Development Economics (Joëlle Noailly and Tim Swanson)
- Conservation and Sustainable Development (Tim Swanson, Marc Hufty and Susanna Hecht)
- Climates and History: What the Past Can Tell us about the Present and the Future (Susanna Hecht)
- Development and the Tropics (Susanna Hecht)

2. Staffing of the Centre



From top left to right: Shaila Seshia Galvin, James Hollway, Joëlle Noailly, Susanna Hecht, Liliana Andonova, Christophe Gironde, Amalia Ribbi-Forclaz, Anne Saab, Tim Swanson and Andhina Kusumawidjaja

The Centre is led by an interdisciplinary Executive Committee of Professors at the Institute appointed in the area of environment, including Timothy Swanson (International Economics, Co-Director of CIES), Liliana Andonova (International Relations/ Political Science, Co-Director of CIES), Susanna Hecht (International History, Head of Environment, Resources and Sustainability Track), and Marc Hufty (Development Studies). This Executive Committee is supported by other associated faculty members from various departments, namely: Amalia Ribbi-Forclaz (International History), Anne Saab (International Law), Christophe Gironde (Development Studies), Filipe Calvao (Anthropology and Sociology), James Hollway (International Relations/Political Science), Joëlle Noailly (International Economics, Head of Research of CIES), and Shaila Seshia Galvin (Anthropology and Sociology).

Dr Joëlle Noailly also holds the function of Head of Research of CIES, overseeing the research programmes and projects of the Centre. As of January 2020, she started a new position as Associate Professor in environmental economics at the Vrije Universiteit Amsterdam (VU) on a part-time basis and thereby reduced her activities within the CIES. Andhina Irminger-Kusumawidjaja is the Senior Coordinator and works on the day-to-day management of the Centre.

In 2020, the Centre's Staff is composed of 1 Post-Doctoral Researcher and 24 Research Affiliates, among which 23 are fully funded PhD candidates and paid research assistants:

- **Morgan Scoville Simonds**, Post-Doctoral Researcher (Development Studies)
- **Radu Barza**, PhD Candidate (Development Economics)
- **Laura Nowzohour**, PhD Candidate (International Economics)
- **Roxana Manea**, PhD Candidate (Development Economics)
- **Jamie Fraser**, PhD Candidate (International Economics)
- **Dario Piselli**, PhD Candidate (International Law)
- **Jonas Köppel**, PhD Candidate (ANSO)
- **Nicholas Brown Tyack**, PhD Candidate (Development Economics)
- **Matthias van den Heuvel**, PhD Candidate (Technology Management), Visiting Researcher, EPFL
- **Pedro Cayul**, PhD Candidate (Development Economics)
- **Helena Ting**, PhD Candidate (Development Economics)
- **Agnese Zucca**, PhD Candidate (IR/PS)
- **Henrique Sposito**, PhD Candidate (IR/PS)
- **Viktoria Vidahazy**, PhD Candidate (International Economics)
- **Simon Montfort**, Research Assistant (IR/PS)
- **Céline Kahn**, Master's student (Interdisciplinary Programs), Communication Assistant
- **Deepashree Maledavar**, Master's student (Interdisciplinary Programs), Communication Assistant
- **Eva Bortolotti**, Master's student (Interdisciplinary Programs), Research Assistant
- **Till Fust**, Master's student (International Economics), Research Assistant
- **Bettina Kast**, Master's student (Interdisciplinary Programs), Research Assistant

- **Dario Siegen**, Master's student (Interdisciplinary Programs), Research Assistant
- **Sarah Schoch**, Master's student (Interdisciplinary Programs), Research Assistant
- **Minhea-George Filip**, Master's student (Interdisciplinary Programs), Research Assistant
- **Bernhard Bieri**, Master's student (International Economics), Research Assistant
- **Esther Peev**, Master's student (Interdisciplinary Programs), Research Assistant

Three visiting fellows and researchers joined the Centre this year:

- **Katja Doose**, Postdoctoral Researcher and visiting lecturer, PhD in Eastern European History from the University of Tübingen;
- **Noémie Laurens**, PhD Candidate in political Science at Université Laval (Quebec city, Canada);
- **Francesca Falco**, PhD Candidate in biodiversity conservation policy at University of Tel-Aviv (Israel).

In 2020, Helena Ting, PhD Candidate in Development Economics, successfully defended her PhD thesis "Essays on Health and Development" on 26 November 2020. She was supervised by CIES faculty, Tim Swanson, Professor in Economics at the Graduate Institute.

Finally, through its faculty member, Shaila Seshia Galvin (ANSO), and in coordination with McGill University, the Centre was selected to integrate the Social Sciences and Humanities Research Council (SSHRC) Partnership Grant for 7 years (2018-2025). The partnership offers the possibility welcoming two affiliated visiting researchers per year at the Centre over the period of 7 years.

3. Active, ongoing research projects

The CIES is structured around the following research programmes:

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

Under these programmes, there were 9 active and ongoing projects in 2020 that were externally funded from diverse sources, including Swiss public research funding organizations (SNSF and SNIS), and private foundations. One project, "Effectiveness of Partnerships for Advancing the Sustainable Development Goals: Behavioural Pathways and Impacts", came to an end in 2020. Three new projects started in 2020 – "PANARCHIC: Power and Networks and the Rate of Change in Institutional Complexes"; "An Experimental Approach to Farmer Valuation of African Rice Genetic Resources"; and "Genetic Resources and Agricultural Productivity in the Developing World".

3.1 Environmental Governance Research Programme



The Environmental Governance 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.

Effectiveness of Partnerships for Advancing Sustainable Development Goals: Behavioral 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) emphasize 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 organizations – UNICEF and the WEF.

- LILIANA ANDONOVA, Professor in IR/PS, Graduate Institute (main applicant)
- GILLES CARBONNIER, Professor in International Economics, Graduate Institute (co-applicant)
- JAMIE FRASER, PhD Candidate in International Economics, Research Assistant
- DARIO PISELLI, PhD Candidate in International Law, Research Assistant
- Funded by SNIS: CHF 262,273; Selected through a competitive process
- Project duration: November 2017 to November 2020

Accountability of International Organisations



This project will seek to develop a broadly generalizable theory that places a spotlight on explaining the variable accountability of international organisations (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. The theory 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 in IR/PS, Graduate Institute (main applicant)
- AGNESE ZUCCA, PhD Candidate in IR/PS, Research Assistant
- SIMON MONFORT, Research Assistant
- CECILIA MORIN, Junior Visiting Researcher
- Funded by SNSF: CHF 862,453; Selected through a competitive process
- Project duration: September 2019 to August 2023

PANARCHIC: Power and Networks and the Rate of Change in Institutional Complexes



Institutional complexes change through states' interdependent decisions to join, reform, or create international institutions. Rendering these decisions in the form of a network enables the leveraging of network theory and network methods. Network and power analysis can both help us understand how the rate

of change in these dependent variables may differ across the institutional complex, rendered as a network. Network analysis makes more precise institutionalist suggestions that denser, overlapping institutional complexes might slow down institutional changes. Power analysis reminds both institutional and network analysis that powerful actors can act or force others to act where others cannot. Combining these literatures promises to provide a more nuanced theory of the rate of institutional change.

The project plans to study the effects of network and power on how quickly states join, reform, or create international institutions by examining the historical dynamics

of three institutional networks from different domains—military alliances (security), trade (economics), and fisheries agreements (environment). A three-part research design allows the development and testing of a theory of the rate of institutional change by 1) identifying network and power mechanisms that generalise across domains, 2) recognising how context conditions their influence, and 3) understanding how institutional complexes coevolve. The main methodology utilised is a dynamic actor-oriented network event model to estimate the effects network and power have on the timing and choices of institutional changes. Three extensions to this model to be developed during this project will further social and political network research. Text analytic methods will also be used to quantify change in institutional design and to follow up qualitatively cases identified by the models as representative or outliers.

- JAMES HOLLWAY, Professor in IR/Political Science, Graduate Institute (main applicant)
- HENRIQUE SPOSITO, PhD Candidate in IR/Political Science, Research Assistant
- BERNARD BIERI, Master's student, International Economics, Research Assistant
- ESTHER PEEV, Master's student, Interdisciplinary Programs, Research Assistant
- Funding by SNSF: CHF 695,961; Selected through a competitive process
- Project duration: September 2020 to August 2024

3.2. Climate, Energy and Innovation Research Programme



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

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 attracting new investors into cleantech.



- JOËLLE NOAILLY, Lecturer in International Economics, Graduate Institute (co-applicant)
- GAËTAN DE RASSENFOSSE, Assistant Professor in Innovation Management, EPFL (co-applicant)
- LAURA NOWZOHOUR, PhD candidate, International Economics, Research Assistant
- MATTHIAS VAN DEN HEUVEL, PhD candidate, Economics of Innovation, EPFL
- EVA BORTOLOTTI, MINHEA-GEORGE FILIP, TILL FUST, BETTINA KAST, SARAH SCHOCH and DARIO SIEGEN, Master's students, Research Assistants
- Funded by the SNSF and NRP 73: CHF 714,719; Selected through a 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 change span multiple scales, from local biodiversity to the earth's atmospheric systems. 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.

An Experimental Approach to Farmer Valuation of African Rice Genetic Resources



This project aims to investigate the value that rice farmers in Côte d'Ivoire place on both African rice landraces maintained by the AfricaRice genebank as well as advanced rice varieties developed through AfricaRice's breeding programs such as the inter-specific hybrid ARICA varieties and the aromatic

Oryza sativa variety ORYLUX. This will take place through a field experiment including the implementation of a payment for agrobiodiversity conservation services (Drucker and Ramirez 2020) programme for landraces and the assignment of seed of advanced rice varieties based on the willingness-to-pay (WTP) of surveyed farmers. Methodologically, it will

combine a typical randomized controlled trial approach with a simplified version of the open selective trials methodology proposed by Chassang et al. (2012).

The project significance is its combined investigation of how farmers value both newer advanced rice varieties bred through AfricaRice's programmes as well as rice landrace varieties conserved by the AfricaRice genebank (including both *O. sativa* and *O. glaberrima* landraces). In addition, the study's use of an extended randomized controlled trial / open selective trials methodology through a field experiment will be used to investigate how farmer heterogeneity impacts the valuation of rice genetic diversity (both traditional and improved) in the West African context.

- NICHOLAS TYACK, PhD candidate in Development Economics, Graduate Institute (co-applicant)
- AMINOU AROUNA, AfricaRice (co-applicant)
- Funding by GeneBank Fellowship: USD 14,000
- Project duration: October 2020 to February 2021

Genetic Resources and Agricultural Productivity in the Developing World



The Green Revolution was a major public sector investment in the development of improved crop varieties, especially for rice and wheat, which led to the adoption of a modern set of fertilizers and crop varieties to high yield in many developing countries.

This research project aims to examine how these investments in the development and dissemination of improved crop varieties have contributed (or have not contributed) to the convergence of productivity and the reduction of yield gaps for a number of crops in the developing world. It examines data for several crops

(including wheat, rice, sorghum and maize) and also studies the impact of investments in research and development, the level of intellectual property protection and the potential for hybridization of crops as factors contributing to successful dissemination.

This project contributes to the international development discourse and is of interest both for the perspectives it can provide by looking backwards - how investments in breeding more productive crops have impacted the capacity of developing countries to “catch up” with the technological frontier with respect to crop yields - and also by looking to the future, as it provides an analysis of the extent to which investments in breeding better plant varieties could help increase agricultural productivity in developing countries in the coming century.

- NICHOLAS TYACK, PhD candidate, Graduate Institute (co-applicant)
- Funding by SNSF Doc.Mobility: CHF 44,884
- Project duration: November 2020 to August 2021

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 (Extension of the initial project)



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 in International Economics, Graduate Institute
- ROXANA MANEA, PhD Candidate in Development Economics, Research Assistant
- HELENA TING, PhD Candidate in Development Economics, Research Assistant
- Funded by the MAVA Foundation: CHF 298,382
- Project duration: February 2020 to August 2022

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 in Development Studies, Graduate Institute (main applicant)
- MORGAN SCOVILLE-SIMONDS, Postdoctoral Researcher, Development Studies
- Jonas Köppel, PhD Candidate in ANSO, Research Assistant
- Funded by SNF: CHF 569,322; Selected through a competitive process
- Project duration: June 2017 to May 2021

LITHIUM PROJECT UPDATE



«As the Corona pandemic is bringing the world to a standstill our research on the global lithium industry and its governance is equally put on hold. In our partner countries Argentina, Bolivia, and Chile quarantine measures have made fieldwork impossible, while institutions such as universities have effectively stopped working. The lithium industry itself is being increasingly affected by disruptions in global consumer markets and supply chains.

While no one really knows how the world will look like after this disruption, the current dynamics in the lithium sector herald a certain reordering of global supply chains towards relocalization, as countries such as France seek to become less dependent on distant places to supply them with increasingly critical raw materials such as lithium.»

– Jonas Köppel's testimony on his fieldwork experience during the COVID19 Pandemic (21 April 2020).

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 in International Economics, Graduate Institute (main applicant)
- MARTINA VIARENGO, Professor in International Economics, Graduate Institute (co-applicant)
- RADU-NICOLAE BARZA-NICOARA, PhD candidate, Development Economics, Research Assistant
- ROXANA MANEA, PhD candidate, Development Economics, Research Assistant
- Funded by the SNSF: CHF 487,661; Selected through a competitive process
- Project duration: July 2018 to June 2022

4. Proposals submitted in 2020

During the year 2020, CIES researchers submitted **9 proposals** to external funders among which 5 were successfully awarded and 4 are currently under review.



Accounting for Nature: Agriculture and Mitigation in the Era of Global Climate Change

Led by Prof. Shaila Seshia Galvin



This project envisions utilizing the theoretical perspectives and methodological approaches of anthropology to develop a more holistic understanding of climate change mitigation and

address several important lacunae in current knowledge. The project focuses on the role of accounting practices in mitigation, which have received little attention within the available anthropological literature on climate change and explores how accounting shapes and conditions the way that both climate change, and the work of mitigation, is interconnected within agriculture.

Agricultural activities have long remained on the margins of mitigation efforts and have proved controversial within climate negotiations. Preliminary research conducted for this project indicates that agriculture's potential in achieving future emissions reductions is increasingly recognized. While both Canada and India, being significant emitters of greenhouse gas emissions, are very different in the structure and composition of their agriculture sectors and in terms of broader economic and human development. These two countries will be the locations for the project, offering strikingly different contexts for studying mitigation in agrarian settings. The outputs from the project will not only be useful in understanding the mitigations of greenhouse gases within the complex agrarian setting, but will also be useful to the ongoing negotiations on climate change under United Nations Framework Convention on Climate Change.

- SHAILA SESHIA GALVIN, Associate Professor in ANSO, Graduate Institute
- Submitted to SNF: CHF 811,818 (4-year)
- Status: Accepted; Selected through a competitive process

SYNTHETIC LIVES: The Futures of Mining

Led by Prof. Filipe Calvao



The global extractive industry is undergoing three critical transformations: the advent of synthetic or lab-grown minerals, the creation of fully automated mining operations, and the introduction of

digital data and disintermediation technologies for mining management and traceability. This project responds to these changing conditions with a novel conceptualization of the emergent relationship entangling synthetic and natural objects, humans and machines, material and digital spaces.

It asks: What is the role of humans and non-human nature in increasingly synthetic, automated, and digital mining economies?

Through a multi-sited and multi-methods study, Synthetic Lives assists policy-making on environmental, employment, and social-digital issues, and inaugurates a debate of anthropological import: What are the political, epistemological, ecological, and economic consequences of a future that promises to be entangled in synthetic properties, autonomous machines, and digital technologies?

- FILIPE CALVAO, Associate Professor in ANSO, Graduate Institute
- Submitted to the European Research Council (ERC): EUR 1.5 million (5-year)
- Status: Accepted; Selected through a competitive process

Dimensions of Regulations: Individual Choice, Individual Motivation and Societal R&D - Case Studies in Regulation as Applied to the Provision of Public Health

Led by Prof. Tim Swanson



The research project is formulated to examine three of the main facets of public health problems (individual consumption, individual motivation, societal R&D), and to further the discussion regarding these important facets for regulating the supply of public goods in this context.

- TIM SWANSON, Professor of International Economics, Graduate Institute

Project partners:

- SEAN LARCOM, Lecturer in Environmental Economics, University of Cambridge
- EMMANUELLE AURIOL, Professor of Economics, Toulouse School of Economics
- XIABO ZHANG, Distinguished University Chair Professor of Economics, National School of Development, Peking University
- JOHN VAN REENEN, Professor of Management and Economics, Massachusetts Institute of Technology
- Submitted to SNF: CHF 966'102 (3-year)
- Status: Submitted - Under review

Emotions and International Law

Led by Prof. Anne Saab

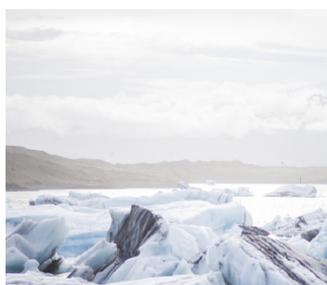


The overall objective of the project is to open up a space to explore the role of emotions in International Law. This space for emotions and IL includes acknowledging and examining the influence of emotions on IL, as well as the influence of IL on emotions.

- ANNE SAAB, Associate Professor of International Law, Graduate Institute
- Submitted to SNF: CHF 729,000.- (4-year)
- Status: Submitted - Under review

Russian Climate Science in Transition

Led by Dr. Katja Doose



With the focus on the history of Russian climate science, the project enquires whether the understanding Soviet and Russian scientists built of climate may contribute to explain anthropogenic climate change denialism in today's Russia.

- KATJA DOOSE, Visiting Lecturer, Graduate Institute
- Submitted to Marie-Curie IEF Fellowship; EUR 203'150 (2-year)
- Status: Submitted - Under review

TEBIDA: The Era of Bug Dams - Global Production and Circulation of Expert Knowledge, Practices and Guideline

This research proposes to study 20th Century dam proliferation's role in the emergence and consolidation of the international governance of the environment, crossing environmental history and sciences and techniques studies to offer new decentralized global narratives of the Anthropocene's great acceleration.

- NATHALIA CAPELLINI, Post-doctoral Researcher at Sciences Po, Paris (under the supervision of Prof. Susanna Hecht)
- Submitted to Marie-Curie IEF Fellowship; EUR 203'150 (2-year)
- Status: Submitted - Under review

Erasmus+ Grant for Jean Monnet Module “European and International Environmental Law”



The Jean Monnet Module on European and International Environmental Law (EIEL) aims to provide students, practitioners and civil society with in-depth knowledge about the state of the art of European and

international environmental law and policy, its achievements and challenges, and its interaction with emerging environmental issues and landmark intergovernmental processes. Two overarching themes run through the Module: (a) the emphasis on the most pressing and emerging issues in European and international environmental law, including the interconnected planetary crises of climate change and biodiversity loss; (b) the particular focus on implementation and enforcement at the level of the EU and its Member States. The core component of the EIEL module is represented by its teaching programme, which includes 50 hours of lectures and seminars on European and International Environmental Law to be hosted each year by the University of Siena. The EIEL module also hosts an annual series of keynote lectures and a series of webinars, and plans to release at least two academic publications by the end of the project's implementation.

- DARIO PISELLI, PhD Candidate in International Law, Graduate Institute
- Submitted to EIEL: EUR 26,145
- Status : Awarded

An Experimental Approach to Farmer Valuation of African Rice Genetic Resources

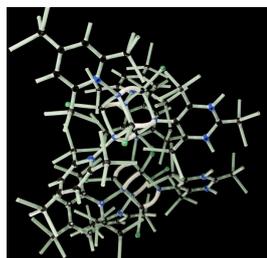


The project significance's is its combined investigation of how farmers value both newer advanced rice varieties bred through AfricaRice's programmes as well as rice landrace varieties conserved by the AfricaRice genebank (including both *O. sativa* and *O. glaberrima* landraces). In addition, the study's use of an

extended randomized controlled trial / open selective trials methodology through a field experiment will be used to investigate how farmer heterogeneity impacts the valuation of rice genetic diversity (both traditional and improved) in the West African context.

- NICHOLAS TYACK, PhD candidate in Development Economics, Graduate Institute
- AMINOU AROUNA, AfricaRice (co-applicant)
- Submitted to Africa GeneBank: USD 14,000
- Status: Accepted

Genetic Resources and Agricultural Productivity in the Developing World



This research project aims to examine how these investments in the development and dissemination of improved crop varieties have contributed (or have not contributed) to the convergence of productivity and the reduction of yield gaps for a

number of crops in the developing world. It examines data for several crops (including wheat, rice, sorghum and maize) and also studies the impact of investments in research and development, the level of intellectual property protection and the potential for hybridization of crops as factors contributing to successful dissemination.

- NICHOLAS TYACK, PhD candidate in Development Economics, Graduate Institute
- Submitted to SNF Doc.ch: CHF 44,884
- Status: Awarded

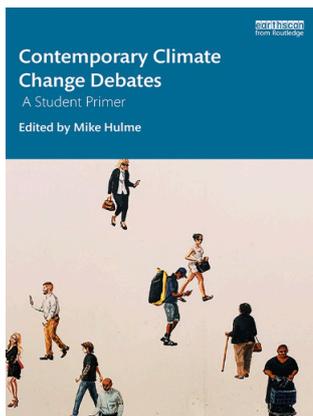
5. Publications



In 2020, CIES researchers contributed to 8 book chapters and 25 articles in academic journals. Another 10 articles and books contribution have been accepted for publication in 2020 and will be published in 2021.

In addition, 10 CIES publications (in the Research and Policy Paper series) were authored or co-authored by CIES staff. Finally, 2 Policy-oriented paper authored by CIES affiliated members were published.

5.1. Books, edited volumes and contributed chapters



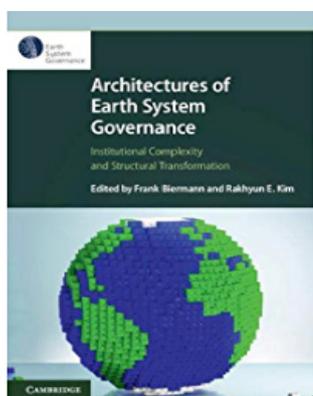
Book chapter

Andonova, Liliana B., and Kim Coetzee. 2020. "Does Successful Emissions Reduction Lie in the Hands of Non-State Rather than State Actors?" In *Contemporary Climate Change Debates: A Student Primer*, 177-190. London: Routledge, 2020.



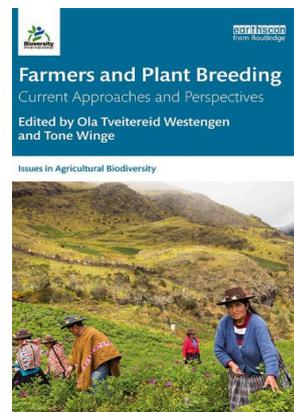
Book chapter

Andonova, Liliana B., Manoela Assayag, and Dario Piselli. 2020. "Partnerships". In *Essential Concepts of Global Environmental Governance*, edited by Jean-Frédéric Morin and Amandine Orsini. 2nd edition. Routledge: London, UK.



Book chapter

Biermann, Frank, Rakhyun E. Kim, Kenneth W. Abbott, James Hollway, Ronald B. Mitchell, and Michelle Scobie. 2020. "Taking Stock and Moving Forward." In *Architectures of Earth System Governance: Institutional Complexity and Structural Transformation*, edited by Frank Biermann and Rakhyun E. Kim, 299–321. Cambridge: Cambridge University Press.



Book chapter

Kessy, Theodore, Abdourasmane Konate, Baboucarr Manneh, Moussa Sie, Alexis Traore, and Nicholas Tyack. 2020. "Twenty Years of Participatory Varietal Selection at AfricaRice: Lessons from Farmer Involvement in Variety Development". In *Farmers and Plant Breeding: Current Approaches and Perspectives*, edited by Ola Tveitereid Westengen and Tone Winge. Routledge & CRC Press.

Aid to Armenia

Humanitarianism
and intervention from
the 1890s to the present

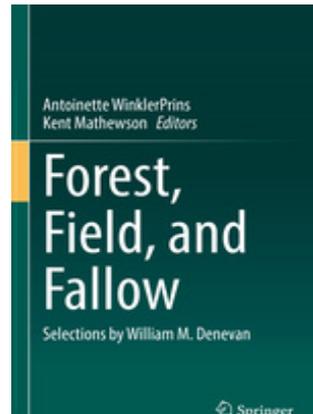


Edited by Jo Laycock
and Francesca Piana

HUMANITARIANISM
Aid, Relief & New Approaches

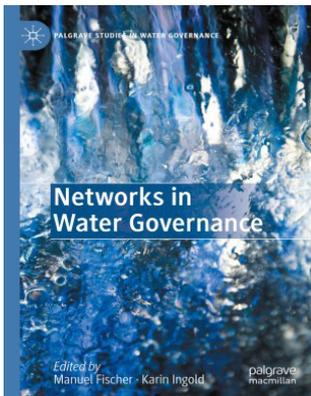
Book chapter

Doose, Katja. 2020. "Tremor and Change: Humanitarian interventions after the 1988 earthquake in Armenia." In *Aid to Armenia. Humanitarianism and intervention from the 1890s to the present*, edited by Jo Laycock and Francesca Piana, 131-146.



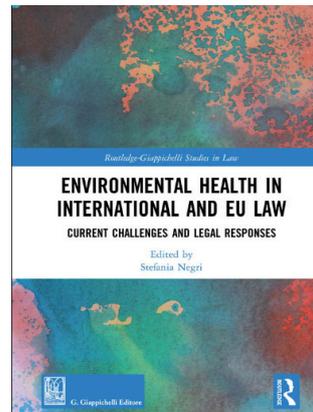
Book chapter

Hecht, Susanna. 2020. "William Denevan: Closet Theorist of Tropical Development". In *Forest, Field, and Fallow: Selections by William M. Denevan*, edited by WinklerPrins, Antoinette, and Kent Mathewson. Springer International Publishing.



Book chapter

Hollway, James. 2020. "Network Embeddedness and the Rate of Water Cooperation and Conflict." In *Networks in Water Governance*, edited by Manuel Fischer and Karin Ingold, 87–113. Palgrave Studies in Water Governance: Policy and Practice. Cham: Springer International Publishing.



Book chapter

Piselli, Dario, and Riccardo Pavoni. 2020. "EU Biodiversity Law and Its Health Impacts." In *Environmental Health in International and EU law: Current Challenges and Legal Responses*, edited by Stefania Negri, 291-310. London:

5.2. Articles published in scientifically referred journals

Abi Younes, George, Charles Ayoubi, Omar Ballester, Gabriele Cristelli, Gaétan de Rassenfosse, Dominique Foray, Patrick Gaulé, Gabriele Pellegrino, **Matthias van den Heuvel**, Elizabeth Webster, and Ling Zhou. 2020. "COVID-19: Insights from Innovation Economists." *Science and Public Policy*. <https://doi.org/10.1093/scipol/scaa028>.

Aidt, Toke S., and **Timothy Swanson**. 2020. "An Introduction to the Economics of Malthusianism." *European Economic Review* 129 (October): 103546. <https://doi.org/10.1016/j.eurocorev.2020.103546>.

Bebbington, Anthony, Avecita Chicchon, Nicholas Cuba, Emily Greenspan, **Susanna Hecht**, Denise Humphreys Bebbington, Susan Kandel, et al. 2020. "Opinion: Priorities for Governing Large-Scale Infrastructure in the Tropics." *Proceedings of the National Academy of Sciences* 117 (36): 21829–33. <https://doi.org/10.1073/pnas.2015636117>.

Bolay, Matthieu, and **Filipe Calvão**. 2020. "Voir dans la pierre. Réfractations visuelles et apprentissage du métier d'évaluateur dans l'industrie globalisée du diamant." *Revue d'anthropologie des connaissances* 14 (14–3). <http://journals.openedition.org/rac/6749>.

Calvão, Filipe, and Erik Post. 2020. "Mythical Islands of Value: Free Ports, Offshore Capitalism, and Art Capital." *Arts* 9 (4): 100. <https://doi.org/10.3390/arts9040100>.

Fazey, Ioan, Niko Schöpke, Guido Caniglia, Anthony Hodgson, Ian Kendrick, Christopher Lyon, Glenn Page, **Scoville-Simonds, M.** et al. 2020. "Transforming Knowledge Systems for Life on Earth: Visions of Future Systems and How to Get There." *Energy Research & Social Science* 70 (December): 101724. <https://doi.org/10.1016/j.erss.2020.101724>.

Galvin, Shaila Seshia. 2020. "Organic Sovereignties: Struggles over Farming in an Age of Free Trade." *The Journal of Peasant Studies*, April. <https://www.tandfonline.com/doi/pdf/10.1080/03066150.2020.1741786>.

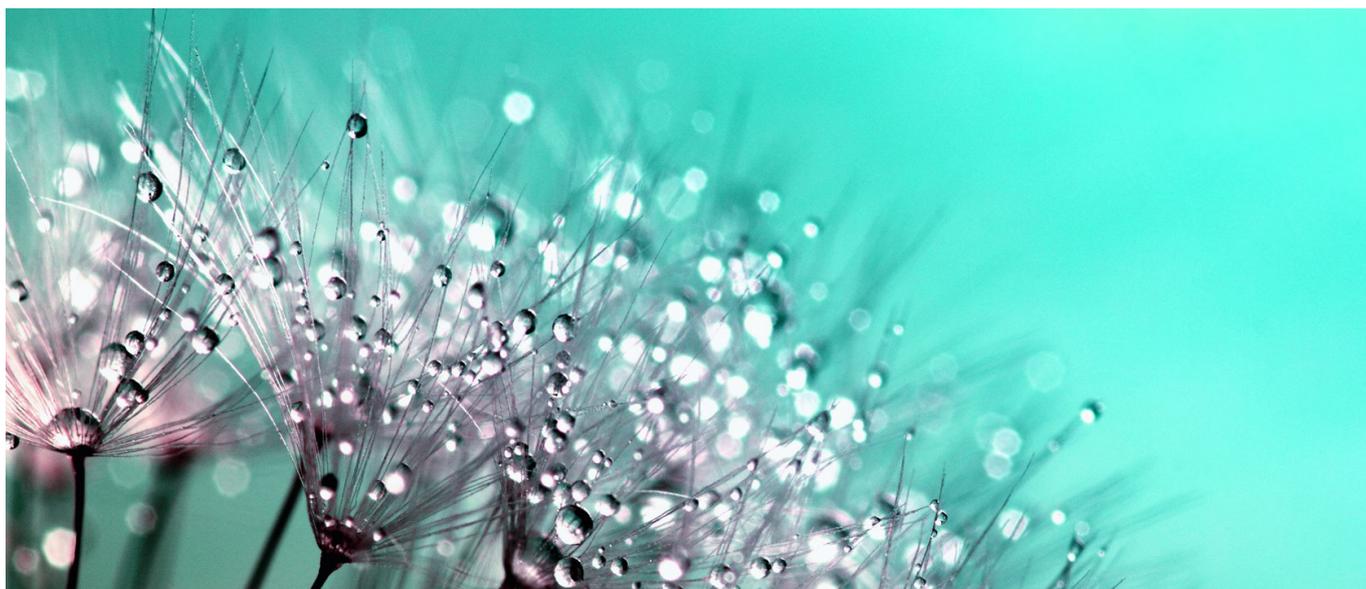
Gonenc, Defne, **Dario Piselli**, and Yixian Sun. 2020. "The Global Economic System and Access and Allocation in Earth System Governance." *International Environmental Agreements: Politics, Law and Economics* 20 (2): 223–38. <https://doi.org/10.1007/s10784-020-09472-w>.

- Hecht, Susanna.** 2020. "Why the Brazilian Amazon Burns." *Current History* 119 (814): 60–65. <https://doi.org/10.1525/curh.2020.119.814.60>.
- Hecht, Susanna,** and Raoni Rajão. 2020. "From 'Green Hell' to 'Amazonia Legal': Land Use Models and the Re-Imagination of the Rainforest as a New Development Frontier." *Land Use Policy* 96 (July): 103871. <https://doi.org/10.1016/j.landusepol.2019.02.030>.
- Held, David, Ilona Kickbusch, Kyle McNally, **Dario Piselli,** and Michaela Told. 2019. "Gridlock, Innovation and Resilience in Global Health Governance." *Global Policy* 10 (2): 161–77. <https://doi.org/10.1111/1758-5899.12654>.
- Hollway, James,** Jean-Frédéric Morin, and Joost Pauwelyn. 2020. "Structural Conditions for Novelty: The Introduction of New Environmental Clauses to the Trade Regime Complex." *International Environmental Agreements: Politics, Law and Economics* 20 (1): 61–83. <https://doi.org/10.1007/s10784-019-09464-5>.
- Huft, Marc,** and Denis Ruyschaert. 2020. "Building an Effective Coalition to Improve Forest Policy: Lessons from the Coastal Tripa Peat Swamp Rainforest, Sumatra, Indonesia." *Land Use Policy* 99 (December): 103359. <https://doi.org/10.1016/j.landusepol.2018.04.034>.
- Huft, Marc,** Hameed Jamali, and **Morgan Scoville-Simonds.** 2020. "The Hazards of Mainstreaming: Climate Change Adaptation Politics in Three Dimensions." *World Development* 125 (January): 104683. <https://doi.org/10.1016/j.worlddev.2019.104683>.
- Köppel, Jonas.** 2020. "Lithium Transformations: An Unfinished Story." *Transformations* 33: 27-47.
- Mitchell, Ronald B., **Andonova, Liliana B.,** Mark Axelrod, Jörg Balsiger, Thomas Bernauer, Jessica F. Green, **James Hollway,** Rakhyun E. Kim and Jean-Frédéric Morin. 2020. "What We Know (and Could Know) About International Environmental Agreements." *Global Environmental Politics* 20 (1): 103–21. https://doi.org/10.1162/glep_a_00544.
- Naso, Pedro, Erwin Bulte, and **Tim Swanson.** 2020. "Legal Pluralism in Post-Conflict Sierra Leone." *European Journal of Political Economy* 61 (January): 101819. <https://doi.org/10.1016/j.ejpoleco.2019.101819>.
- Naso, Pedro,** Yi Huang, and **Tim Swanson.** 2020. "The Impact of Environmental Regulation on Chinese Spatial Development." *Economics of Transition and Institutional Change* 28 (1): 161–94. <https://doi.org/10.1111/ecot.12234>.
- Naso, Pedro, Bruno Lanz, and **Tim Swanson.** 2020. "The Return of Malthus? Resource Constraints in an Era of Declining Population Growth." *European Economic Review* 128 (September): 103499. <https://doi.org/10.1016/j.eurocorev.2020.103499>.
- Nowzohour, Laura,** and Livio Stracca. 2020. "More than a Feeling: Confidence, Uncertainty, and Macroeconomic Fluctuations". *Journal of Economic Surveys - Wiley Online Library.* Accessed November 4, 2020. <https://onlinelibrary.wiley.com/doi/abs/10.1111/joes.12354>.
- Osterhoudt, Sarah, **Shaila Seshia Galvin,** Dana J. Graef, Alder Keleman Saxena, and Michael R. Dove. 2020. "Chains of Meaning: Crops, Commodities, and the 'in-between' Spaces of Trade." *World Development* 135 (November): 105070. <https://doi.org/10.1016/j.worlddev.2020.105070>.
- Tyack, Nicholas,** and Milan Ščasný. 2020. "'Warehouse' or Research Centre? Analyzing Public Preferences for Conservation, Pre-Breeding and Characterization Activities at the Czech Genebank." *Food Security* 12 (5): 1035–46. <https://doi.org/10.1007/s12571-020-01040-z>.
- Verweij, Marco, Alexandrova P., Jacobsen H., Béziat P., Branduse D., Dege Y., Hensing J., **Hollway, J.** et al. 2020. "Four Galore? The Overlap between Mary Douglas's Grid-Group Typology and Other Highly Cited Social Science Classifications." *Sociological Theory* 38 (3): 263–94. <https://doi.org/10.1177/0735275120946085>.

Book review

- Saab, Anne.** 2020. Book review. *Managing Facts and Feelings in Environmental Governance*, edited by Lorenzo Squintani, Jan Darpö, Luc Lavrysen and Peter-Tobias Stoll Edward Elgar, 2019, *Review of European, Comparative & International Environmental Law*. <https://doi.org/10.1111/reel.12376>

5.3. In press



Book

Andonova, Liliana. B., Moira Faul, and **Dario Piselli**. "Partnerships for Sustainability: Pathways to Effectiveness". Routledge: London (under contract). Forthcoming 2021.

Galvin, Shaila Seshia. "Becoming Organic: Nature and Agriculture in the Indian Himalaya". Yale University Press. Forthcoming, Spring 2021.

Book Chapters

Andonova, Liliana. B. "Clean Energy and Decentralized Global Governance". In *The Future of Global Governance*, edited by Barnett, M., Pevehouse, J. and Raustiala. Cambridge University Press: Cambridge, MA. Forthcoming 2021.

Christopolous, Dimitris, Mario Diani, **James Hollway**, and David Knoke. "Multimodal Political Networks". Cambridge: Cambridge University Press. Forthcoming 2021.

Hollway, James. "What's complex about regime complexity? It depends". In *Complexity, Governance, and Networks*. Forthcoming 2021.

Piselli, Dario, and Harro van Asselt. "Planetary Boundaries and Regime Interaction in International Law". In *Research Handbook on Law, Governance and Planetary Boundaries*, edited by Louis Kotzé and Duncan French. Edward Elgar: Cheltenham, UK. Forthcoming 2021.

Edited Book Volume

Hecht, Susanna. "Mike Davis and the Invention of Global Environmental History". In *Between Catastrophe and Revolution: Essays in Honour of Mike Davis*, edited by Daniel Bertrand Monk and Michael Sorkin. Urban Research. Forthcoming 2021.

Ribi Forclaz, Amalia. "Show Them How to Pick the Darn Stuff: The United Nations Relief and Rehabilitation Administration and its agricultural reconstruction missions in Southern Europe, 1943-47". In *Knowing How to Farm. Renegotiating Global Knowledge in Rural Societies in the 20th Century*, edited by Julia Tischler and Heinrich Hartmann. Forthcoming 2021.

Ribi Forclaz, Amalia. "Experimenting with Scientific Management: New Approaches to Agricultural Labour in the Twentieth Century". In *Managing the Land: Agricultural and Rural Actors in Twentieth Century Europe*, edited by Corinna Unger, Dietmar Müller and Liesbeth van de Grift. Forthcoming 2021.

Noailly, Joelle, and Maxwell Andersen. "Innovation and environmental policy in the mining sector". In *Global challenges for innovation in the mining industries*, edited by A. Daly, D Humphreys, J Raffo, and G Valacchi. Cambridge University Press. Forthcoming 2021.

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.

CIES Research Papers

- Bortolotti, Eva.** 2020. "What Drives Them to Invest in the Sustainable Mobility Transition? Evidence from a Conjoint Experiment on European Investors' Policy Preferences." CIES Research Paper Series 61-2020. Centre for International Environmental Studies, The Graduate Institute. <http://repository.graduateinstitute.ch/record/298509>.
- Bozzola, Martina, **Timothy Swanson** and **Helena Ting.** 2020. "Evaluating the Propensity to Save in South Africa Using Weather-Income Relationship." CIES Research Paper Series, 49–2017. Centre for International Environmental Studies, The Graduate Institute. https://ideas.repec.org/p/gii/ciesrp/cies_rp_49_v2.html.
- Cohen, François, and Giulia Valacchi. 2020. "The Heterogeneous Impact of Coal Prices on the Location of Cleaner and Dirtier Steel Plants." CIES Research Paper Series 65-2020. Centre for International Environmental Studies, The Graduate Institute <http://repository.graduateinstitute.ch/record/298844>.
- Fust, Till.** 2020. "Clean Energy Innovation and the Influence of Venture Capitalists' Social Capital." CIES Research Paper Series, 60–2020. Centre for International Environmental Studies, The Graduate Institute. https://ideas.repec.org/p/gii/ciesrp/cies_rp_06.html.
- Kast, Bettina.** 2020. "Investors' Preferences for e-Mobility Policies." CIES Research Paper Series 62-2020. Centre for International Environmental Studies, The Graduate Institute. <http://repository.graduateinstitute.ch/record/298511>.
- Manea, Roxana Elena.** 2020. "School Feeding Programmes, Education and Food Security in Rural Malawi." CIES Research Paper Series 63-2020. Centre for International Environmental Studies, The Graduate Institute. https://ideas.repec.org/p/gii/ciesrp/cies_rp_63.html.
- Manea, Roxana Elena,** and Pedro Naso. 2020. "School Fee Elimination and Educational Inequality in Tanzania." 64, CIES Paper Series 64-2020. Centre for International Environmental Studies, The Graduate Institute. <http://repository.graduateinstitute.ch/record/298829>.

CIES Policy Brief

- Filip, Mihnea-George.** 2020. "Policy Uncertainty and Renewable Energy Investments in Romania." CIES Policy Brief 5, Autumn 2020.
- Bortolotti, Eva, Kast, Bettina and Noailly, Joëlle.** 2020. "What do Investors in Electric Vehicles Technologies want?" CIES Policy Brief 6, Autumn 2020.

Policy-oriented papers and other publications

- Boulouchos, Konstantinos, Andrea Baranzini, Monica Duca Widmer, Bettina Furrer, Gabriela Hug, Oliver Kröcher, Nicole Mathys, **Joëlle Noailly,** Jean-Louis Scartezzini, and Rolf Schmitz. 2020. "Energy Research 2020+ in Switzerland." <http://repository.graduateinstitute.ch/record/298103>
- Noailly, Joëlle,** David Popp, and Francesco Vona. 2020. "Green Stimulus, Jobs and the Post-Pandemic Green Recovery." VoxEU.Org. July 4, 2020. <https://voxeu.org/article/green-stimulus-jobs-and-post-pandemic-green-recovery>.
- Barza, Radu.** 2020. "Knowledge Intensity and Gender Wage Gaps: Evidence from Linked Employer-Employee Data." CESIFO Working Paper, , xx <https://www.cesifo.org/en/publikationen/2020/working-paper/knowledge-intensity-and-gender-wage-gaps-evidence-linked-employer>.
- Rassenfosse, Gaëtan de, and **Matthias van den Heuvel.** 2020. "Certification or Cash Prize: The Heterogeneous Effect of Venture Competitions." SSRN Scholarly Paper ID 3692403. Rochester, NY: Social

Scientific output in other media (podcast)

Noailly, Joëlle. Politics of the Coronavirus Pandemic – What hope for the Environment?, in *Global Challenges*, Special Issue n.1, June 2020.

<https://globalchallenges.ch/figure/what-hope-for-the-environment-podcast-with-joelle-noailly/>

Galvin, Shaila. Sustainable organic farming and questions of value, on *Appraising Risk*, 29 October 2020.

<https://www.appraisingrisk.com/2020/10/29/galvin-sustainable-organic-farming-and-questions-of-value/>

5.5. Papers presented and talks at conferences by CIES researchers

Andonova, Liliana, and Dario Piselli. “Effectiveness of Global Partnerships. Evidence from Biodiversity and Clean Energy”, at SVPW/ASSP Annual Conference 2020, Universität Luzern, Lucerne, Switzerland, from 3 to 4 February 2020.

Andonova, Liliana. “Transnational institutions and domestic politics for sustainable development. The case of the Amazon Protected Areas Partnership”, at The Symposium on the Political Economy of Development, in honor of Prof Robert H. Bates, through a virtual meeting organised by University of Michigan’s School for Environment and Sustainability, from 2 to 4 October 2020.

Barza, Radu. “Knowledge Intensity and Gender Wage Gaps: Evidence from Linked Employer-Employee Data”, at 2020 Alumni Conference, organized by the Study Center Gerzensee, Foundation of the Swiss National Bank, in Gerzensee, Bern, from 1 to 2 October 2020.

Doose, Katja. Book presentation of “Tectonics of Perestroika” organized by The École des Hautes Etudes en Sciences Sociales on 9 November 2020.

Doose, Katja. “Controlling the future. Climate change research in the Soviet Union and Russia, 1970s-2010s” at University of Freiburg on 17 December 2020.

Fraser, Jamie. “Sovereign Debt Stability and the Effectiveness of Transnational Governance Regimes” at the 2020 SVPW/ASSP Annual Conference, Lucerne, Switzerland, from 3 to 4 February 2020.

Köppel, Jonas. “Lithium Futures: Narrative Relations between Global Energy Transition and Bolivian Mineral Industrialization”, at EASA 2020 Lisboa. Panel 037 on Mining the Energy Transition: Technology, Resource Chains, and Extractive Encounters, from 21 to 24 July 2020.

Köppel, Jonas. “Of Connections and Gatherings: Questioning Lithium as a Common Element”, at the EASST/4S annual meeting, Prague 2020. Panel on Resources for renewable energies, from 18 to 21 August 2020.

Manea, Roxana. “School Feeding Programmes, Education and Food Security in Rural Malawi”, at EUDN PhD Workshop on Development Economics, from 24 to 25 September 2020.

Noailly, Joelle, Laura Nowzohour and Matthias Van Den Heuvel. “Heard the News? Environmental Policy and Investments in Clean Technologies”, at NBER Conference on Innovation in the Energy Sector, on 10 September 2020.

Nowzohour, Laura. “Can Policy Uncertainty derail the Transition to Clean Technologies?” at the Alumni Conference conducted by the Study Center Gerzensee, on 2 November 2020.

Ribi Forclaz, Amalia. “Show Them How to Pick the Darn Stuff: The United Nations Relief and Rehabilitation Administration and its agricultural reconstruction missions in Southern Europe, 1943-47” at the Conference and Book Writing Workshop: ‘Knowing How to Farm. Renegotiating Global Knowledge in Rural Societies in the 20th Century’, organised by Julia Tischler and Heinrich Hartmann at the University of Basel, on 25 and 26 June 2020 and on 27 and 28 November 2020.

Ribi Forclaz, Amalia. “Experimenting with Scientific Management: New Approaches to Agricultural Labour in the Twentieth Century”, together with Carolyn Taratko, at the International conference on ‘Managing the Land: Agricultural and Rural Actors in Twentieth Century Europe’, organised by Corinna Unger, Dietmar Müller and Liesbeth van de Grift, from 15 to 16 July 2020.

Ting, Helena. “Effect of Tuberculosis on Labor market participation: Recent Evidence from South Africa” at the EuHEA 2020 conference, from 3 to 4 September 2020.

Tyack, Nicholas. “Genetic resources and agricultural productivity in the developing world”, at 2020 Annual Meeting of the American Agricultural Economics Association, from 10 to 11 August 2020.

6. Events

In 2020, the CIES organised 5 well attended public events and 1 academic workshop. CIES also co-sponsored 2 public events, one with the FAO Liaison Office in Geneva and the other with the Global Governance Centre at the Graduate Institute. In addition, CIES affiliate members engaged in 15 other policy and public 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 numbers 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.

In 2020, a Geneva Dialogues Public Lecture was scheduled for 10 November 2020, with Jon Hutton, Director of the Luc Hoffmann Institute and chair of the IUCN Red List of Threatened Species. However, in light of restrictions on public gatherings due to the Covid-19 pandemic, the event was cancelled.

6.2. Academic and policy conferences, symposiums and workshops

6.2.1 Academic conferences, workshops and policy events organised by CIES

Academic workshop on "Are Global Partnerships Effective in Advancing the Sustainable Development Goals?" of the SNIS' "Effectiveness of Partnerships" project on 19 March 2020.



The project, which started in Fall 2017, is coordinated by Prof. Liliana Andonova and hosted by the CIES of the Graduate Institute. Its objective is to bridge the gap between the growing role played by transnational partnerships as mechanisms of sustainability governance and the ongoing lack of sound methodological approaches and empirical studies that evaluate their actual effectiveness across different contexts and sectors. In particular, the project aims to develop a better understanding of the pathways and conditions that are likely to increase the effectiveness of partnerships, with a view to enhancing their contribution to the implementation of the 2030 Agenda for Sustainable Development.

The main purpose of the workshop was to bring the research team together, including the University of Geneva's Public-Private Partnership Centre, the University of Zurich, the John F. Kennedy School of Government at Harvard University and the Grenoble Ecole de Management, in order to discuss the final versions of the research papers resulting from the project. At the same time, the meeting sought to define the next steps of project implementation, including the publication of an edited volume as the main research output, as well as a series of supporting dissemination activities.

Overall, the online workshop offered a valuable opportunity to continue project activities despite the recent disruptions that made it impossible to host the event at the Graduate Institute of Geneva. This dynamic collaboration, with participants working together across disciplines and issue areas (ranging from biodiversity to global health) will hopefully provide a timely contribution to the ongoing debate on strategies to increase partnership effectiveness for sustainable development.

The workshop was attended by 25 participants.

Online CIES Policy Event on “Covid-19 and Climate Change: Lessons and Challenges”, with Joelle Noailly, Head of Research at CIES, 16 April 2020



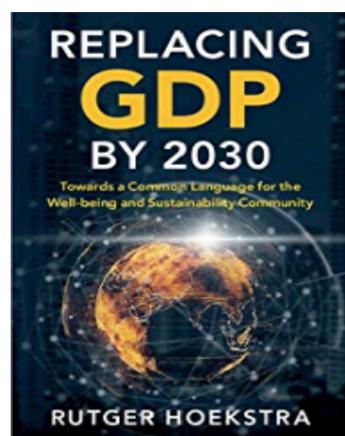
On April 16th, Joëlle Noailly, Head of the Centre for International Environmental Studies (CIES), presented an e-seminar on the impact of COVID-19 on climate change.

At first, we would think that the low economic activity and the drastic decrease in CO₂ emissions would be positive for the environment. Yet, with the recession underway, the price of carbon in the quota trading system, the main mechanism for regulating corporate emissions in the European Union and Switzerland, is collapsing. The price per tonne of carbon went from 25 euros and dropped to 15 euros within two months. With such a low price, companies have no incentive to innovate or find alternative solutions. At a national level, the upcoming economic crisis will soon be at the forefront of national agendas, possibly leaving behind the fight for climate

change. This would also mean that directly after the health crisis, individuals would tend to use more emissions. Adding to that, most of international conferences, such as COP26, have been rescheduled to 2021 which delays the Paris Agreement objectives. We will need to await for European and Chinese decisions in the near future.

The event was attended by 55 participants.

“Replacing GDP by 2030: Towards a common language for the Well-being and Sustainability Community” with Rutger Hoekstra, Founder of MetricsForTheFuture.com. on 30 April 2020.



On April 30th, the CIES had the pleasure to welcome to our e-seminar Rutger Hoekstra, Founder of MetricsForTheFuture.com and author of the book “Replacing GDP by 2030: Towards a common language for the Well-being and Sustainability Community”, published by Cambridge University Press.

Rutger Hoekstra first portrayed a broad picture of the emergence of Gross Domestic Product (GDP) in our society. Although only nine countries used this indicator in 1900, the concept became increasingly popular in the second half of the century and today more than 200 countries are using GDP to measure economic growth. GDP, however, is a very limited tool to measure economic activity and is not a metric of how successful societies are. It fails to measure the differences between the qualitative and quantitative aspects of economic growth and is for instance poorly suited to track digitalization and globalization. More importantly, GDP does not allow to take into account well-being, sustainability, and equity.

In his book, Rutger Hoekstra compares various alternative indicators to include well-being and sustainability. Economists themselves have proposed the metric of Genuine Progress Indicator (GPI), which includes environmental and social factors. The evolution of GPI over time suggests that society has not been making progress since the 1970s. In addition, the GPI presents some important limits as it emphasizes monetary values.

Instead, Rutger Hoekstra’s core argument is that we need to think more broadly about our narrative and develop a common language to promote an alternative set of indicators. The environment, economy, and society share the same features and language in relation to stock/flow accounting, networks, and limitations. Such a harmonized system can be created through a system of accounts with four layers. The first one includes the environmental system, the second one is the society, the third layer is the economy, and the last layer involves distribution. Policy organizations, such as the UN or the World Bank, can take a leading role in changing our narratives beyond GDP.

The event was attended by 62 participants.

Public Policy Conference “Are Global Partnerships Effective in Advancing the Sustainable Development Goals?” of the SNIS’ “Effectiveness of Partnerships” project on 16 November 2020

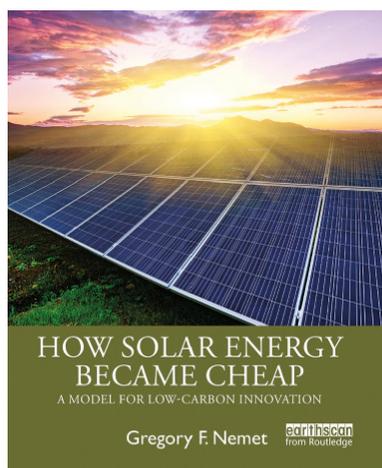


The panel discussed whether existing partnerships are actually contributing to the implementation of the 2030 Agenda. Do we have the right tools to measure partnerships’ successes and failures? What are the factors and conditions that can increase the effectiveness of partnerships? While the actual impacts of partnerships will often interact with contextual factors, such as political conditions or external shocks, different internal features can play a key role in driving partnership effectiveness, like – the specificity of partnership arrangements, commitment of partner resources, level of adaptability and deployment of innovative products, processes or services.

The panel underscored that in order to build strong effective partnerships, it is necessary to define the problem one is trying to solve. Innovative mechanisms, including finance, are essential for addressing the problems and a cornerstone for effective partnerships. At the same time, there is an emphasis on an effective consultation and participation of local communities and the civil society because understanding the problem as perceived by the people on ground. Overall, the event provided the basis for the drafting of the project’s policy recommendations and was attended by over 100 participants from around the world.

- Presentation by: Prof Liliana Andonova (Academic Co-Director of the Centre for International Environmental Studies) and Prof Gilles Carbonnier (Vice President of the International Committee of the Red Cross), Axel Michaelowa (Head of Research, International Climate Policy, University of Zurich) and Dario Piselli (Affiliated Research Student, Centre for International Environmental Studies).
- Roundtable discussion with: Mr Rolph Payet (Executive Secretary of the Basel, Rotterdam and Stockholm Conventions), Mr Juan Luis Coderque Galligo (Head of New Financing Models at the International Committee of the Red Cross), Prof Gilbert Probst (Director of the PPP Research Centre of the University of Geneva and Chairman of the Board of the Banque Cantonale de Genève),
- Moderation by: Moira Faul (Executive Director, Network for International Policies and Cooperation in Education and Training, NORRAG).

Online policy talk on “How Solar Energy Became Cheap: A Model for Low-Carbon Innovation”, with Gregory Nemet, Professor at the University of Wisconsin–Madison in the La Follette School of Public Affairs, on 23 November 2020.



The policy talk highlighted the technological progress in solar energy, innovation and policies by addressing two questions – How it became so cheap? And why did it take so long? The international flow of knowledge was crucial in the promotion of solar energy – people, ideas, products and finance. In addition, the technological progress in solar energy and innovation was possible by the work and contributions done by five countries over three decades – USA, Japan, Germany, China and Australia, each of which built on the others work, and the policy environment in these countries.

In order to accelerate and keep the momentum for solar energy going, there is constant need for technology push, through continuous R&D, trained workforce and public procurement and demand pull, through robust markets, disruptive production and political economy.

The talk concluded on the note that multiple models are necessary for low carbon innovation.

The event was attended by 79 participants.

Online policy event on “Burdens of the Past, Burdens of the Future? Us Climate Policy in The World in a Time of Transition” with Susanna Hecht, Professor in International history and CIES affiliate, on 14 December 2020.



The policy talk revolved around how much of the Trump legacy can be undone, and what can Biden do to move forward? The event was moderated by Prof. Joelle Noailly, Head of Research of Centre for International Environmental Studies, witnessed 85 registered participants.

Prof. Hecht presented the Trump administration legacy, which led to weaken or wipe out more than 125 rules and policies aimed at protecting the nation’s air, water and land. In addition, with more than 40 rollbacks are still underway. .

The upcoming Biden administration instead is proposing a goal of carbon-free electricity by 2035, re-joining the Paris Agreement and implementing strong climate policies, with an emphasis on environmental justice. Prof. Hecht stressed that “not all actions taken are reversible or even if it is, it would take time to undo them”. However, the new Biden administration offers a new hope.

The event was attended by 85 participants.

6.2.2 Other policy and public events co-organised by CIES

Swanson, Timothy. Moderator at the online event on “COVID19 and Food Security”, with Máximo Torero Cullen (Chief Economist and Assistant Director-General for the Economic and Social Development Department at the FAO). The event was co-organised by CIES with FAO Liaison Office Geneva, on 24 June 2020

Noailly, Joelle. Invited panelist on “Macroeconomic modelling, climate risks and stranded assets”, as part of the Bilateral Assistance and Capacity Building for Central Banks (BCC) 8th Conference on “Climate Change and Disaster Risks: What do they imply for emerging central banks”, the Graduate Institute, on 1 October 2020.

Galvin, Shaila Seshia. Seminar on “Responsible Agricultural Investments. How Are Agricultural Futures Governed at the International Level?”, as part of Global Governance Colloquium series of the Global Governance Centre at the Graduate Institute, moderated by Annabelle Littoz-Monnet, Professor of International Relations/Political Science and Director of the Global Governance Centre, the Graduate Institute, on 24 November 2020.

6.2.3 Other seminars, policy and public events with the participation of CIES faculty

Andonova, Liliana. Virtual expert meeting group of UNDES/UNCTAD/ITU on “Socially just transition towards sustainable development: The role of digital technologies on social development and well-being of all” from 4 to 7 August 2020.

Andonova, Liliana. High-level panel discussion at the UN75 Political Declaration on 25 August 2020.

Andonova, Liliana. Seminar on “Can green finance bridge the transatlantic divide on climate change?” at the Financing the green transition in Europe colloquium at University of Geneva on 16 October 2020.

Doose, Katja. “Garantir la certitude en période d’incertitude: le rôle des climatologues dans la réponse de l’État soviétique au réchauffement climatique, années 1960-1990” at EHESS, Paris, on 19 May 2020.

Doose, Katja. “Climate Change and Agriculture in the Soviet Union and Russia, 1960s-2000s” at Climate and Society in Eurasia: Past, Present and Future, University of Illinois at Urbana-Champaign, from 22 to 23 June 2020.

Doose, Katja. Seminar on “Tremor and Change. The 1988 earthquake and its social-reordering processes” for the Center for Russian, Caucasian and Central European studies (CERCEC)’s seminar series: Mondes russe, caucasien, centre-asiatique et centre-européen: sources et méthodes. Mobilité et reconfigurations des sociétés à l’Est de l’Europe, on 9 November 2020.

Galvin, Shaila Seshia. Discussant at “The Everyday State,” Young South Asia Scholars’ Meet from 3 to 5 June 2020.

Gironde, Christophe. Seminar on “Food security and gender relations in Ratanakiri”, in Banlung city, Ratanakiri province, Cambodia, at the workshop on Land Commercialization, gender relations and food security, organised by the Ministry of Agriculture of Cambodia and Demeter research project at the Graduate Institute on 20 January 2020.

Gironde, Christophe. Guest speaker at the seminar series on “Agrarian transition in Southeast Asia: lessons from Vietnam and Thailand”, organised by the Faculty of Social Sciences, Chiang Mai University on 15 January 2020.

Gironde, Christophe. Seminar on “Access to Land in an Intergenerational Perspective – The Case of Cambodia”, at the panel on Youth, Future of Agriculture and Environmental Transition, in the Global Interdisciplinary Policy Research Conference on Youth Transitions on 21 February 2020.

Hecht, Susanna. Seminar on “Amazonia Now: Perspectives on a region in crisis”, at the colloquium hosted by The Program of Portuguese at Florida State University, from 16 to 19 November 2020.

Hecht, Susanna. Seminar on “Political ecology and Latin American Environmentalism: from Biota to Black Lives, from Rural to Urban” event on “What has been the role of Latin America in the development of political ecology?”, organised by Université de la Sorbonne, online event, on 10 December 2020.

Piselli, Dario. Webinar of the Jean Monnet Module on EU Law and Sustainable Development: ‘The EU and the Modernization of the Energy Charter Treaty: What Could it Mean for Climate Action?’ with Elena Cima (Lecturer at the ISE/GEDT and Faculty of Law, University of Geneva) on 28 April 2020.

Piselli, Dario. SDSN Youth Live! Webinar with Sir Robert Watson (Former Chair of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services), May 23 2020.

Piselli, Dario. Webinar of the Jean Monnet Module on EU Law and Sustainable Development: ‘The Precautionary Principle under EU Law: A Brake or Lever for Sustainable Development?’ with Alessandra Donati (Senior Research Fellow at the Max Planck Institute Luxembourg for Procedural Law) on 13 July 2020.

Saab, Anne. Panelist at the Book Launch: «Yearbook of International Disaster Law», organised by the International Federation of Red Cross and Red Crescent Societies. Geneva, 9 March 2020.



6.3. CIES 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. While a few seminars were scheduled for the year, only one seminar was successfully held due to Covid-19 restrictions.

→ “Pay it forward: Impacts of a rural livelihoods program with built-in spillovers” with Nicholas Magnan, Associate Professor, Agricultural and Applied Economics, University of Georgia (USA), co-organised with the Department of Economics, on 11 May 2020.

6.4. CIES lunch/Interdisciplinary seminars

The CIES lunch/interdisciplinary seminars series is a platform for CIES researchers and external researchers to share their 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.

After 16 March 2020, due to Covid-19 restrictions, the format was transformed from in-person to hybrid and online seminars. 10 seminars were held in 2020, which were attended on an average by 15 students and faculty.



Montfort, Simon. Research Assistant at the Graduate Institute. **“Leveraging the Power-Wielder: De Jure Accountability of International Organization”** on 27 February 2020.

Laurens, Noémie. PhD candidate in Political Science at Laval University (Canada) and CIES Visiting Fellow. **“Negotiating Environmental Protection in Trade Agreements: a Regime Shift or a Tactical Linkage?”** on 12 March 2020.

Remans, Roseline. Senior Scientist, The Alliance of Biodiversity International and the International Center for Tropical Agriculture (CIAT). **“Biodiversity in our Food Systems”** on 14 May 2020.

Koppel, Jonas. PhD Candidate in ANSO at the Graduate Institute. **“Towards an Ethnography of Lithium”** on 28 May 2020.

Kahn, Céline. Master’s student in Development Studies at the Graduate Institute. **“Sustainable Financing of Marine Protected Areas (MPAs) in the Mediterranean”** on 4 June 2020

Noailly, Joëlle. Head of Research of CIES at the Graduate Institute, and Associate Professor, Environmental Economics, VU Amsterdam. **“Heard the News? Environmental Policy and Investments in Clean Technologies”** on 6 October 2020.

Bodin, Örjan. Associate Professor, Stockholm University (Stockholm Resilience Centre). **“Environmental governance and human-nature interactions: A network perspective”** on 20 October 2020.

Swanson, Tim. Professor at the Graduate Institute. **“Follow Your Leader: How Law has Effect?”** on 3 November 2020.

Galvin, Shaila Seshia. Associate Professor at the Graduate Institute. **“Accounting for Nature: Agriculture and Mitigation in the Era of Global Climate Change”** on 24 November 2020.

Calvao, Filipe. Associate Professor at the Graduate Institute, **“Synthetic Lives: The Futures of Mining”** on 8 December 2020.

7. Professional Training

Given its research mandate, CIES does not engage in the organisation of the Executive Education programmes. As of 2020, Anne Saab will take over the directorship of the Executive Education programme in Environmental Governance and Policy-Making, which will contribute to strengthen the links between the CIES and the Executive Education.

8. Public Impact



CIES associated faculty members regularly intervene or are mentioned in local and international media. In 2020, CIES members were featured in the following media news:

- 07.01.2020 : La Tribune de Genève, 'Maduro manoeuvre pour tenter d'affaiblir Guaidó'. **Marc Hufty**.
- 22.01.2020 : Heidi News, 'Ce qu'il faut retenir des promesses sur le climat à Davos'. **Joëlle Noailly**.
- 06.02.2020 : Le Temps, 'L'Argentine va vers la restructuration de sa dette'. **Marc Hufty**.
- 02.04.2020 : Heidi News, 'Pourquoi la pandémie de Covid-19 est aussi une mauvaise nouvelle pour le climat'. **Joëlle Noailly**.
- 14.04.2020 : RTS, 'Il y a un changement de priorités'. **Joëlle Noailly**.
- 24.04.2020 : Deutsche Welle, 'O papel de gado e soja no ciclo de desmatamento'. **Susanna Hecht**.
- 01.05.2020 : Tribune de Genève, 'Virginie Lenk Au Salvador, gangs rivaux dans une même cellule'. **Marc Hufty**.
- 03.08.2020 : Sci Dev Net, 'Expertos se unen en un panel para preservar la Amazonía'. **Susanna Hecht**.
- 18.08.2020: The Conversation, 'Russia's skepticism of climate change explained by its scientific history'. **Katja Doose**.
- 31.08.2020: Die Länder-Analysen Russland, 'Umweltpolitik'. **Katja Doose**.
- 02.09.2020: Oxford Center for Tropical Forest News, 'Disaster developmentalism and deforestation: Covid, current catastrophe and some thoughts on a different future'. **Susanna Hecht**.
- 11.09.2020: Fundação para a Ciência e a Tecnologia, press release, 'Six new ERC grants awarded to Portuguese scientists'. **Filipe Calvão**.
- 13.09.2020: LSE Review of Books, 'Book Review of Narratives of Hunger in International Law: Feeding the World in Times of Climate Change'. **Anne Saab**.
- 21.09.2020: Geneva Solutions, 'What if insurers stopped paying the climate bill?'. **Joëlle Noailly**.
- 22.09.2020: Geneva Solutions, '\$47-trillion investor group calls on big polluters to reach net-zero emissions'. **Joëlle Noailly**.
- 03.10.2020 : RTS, 'Allô la terre!'. **Marc Hufty**.
- 06.10.2020, Université de Genève, Press Release, 'La finance au service de la transition écologique'. **Liliana Andonova, Jérôme Duberry and Charles Wyplosz**.
- 27.10.2020 : La Tribune de Genève, 'La rue abat la Constitution de Pinochet! Reste à changer le quotidien des gens'. **Marc Hufty**.
- 06.11.2020: zeitgeschichte-online, 'War in the Caucasus: The conflict over Nagorno-Karabakh and its background'. **Katja Doose**.
- 06.11.2020: Florida State University News, 'FSU presents symposium on crisis facing Amazonia'. **Susanna Hecht**.
- 22.11.2020: Counter Punch, 'An American Amazon?: Colonizers, Slavers and Speculators in the Upper Amazon'. **Susanna Hecht**.

9. Relationship with International Geneva

The CIES maintains important relationships with many organizations part of International Geneva. Several international organizations are active partners into CIES research projects: WEF and UNICEF (SNIS - "Effectiveness of partnerships for advancing the SDGs", Prof Liliana Andonova); OECD and GGKP (NRP73 – "Financing clean tech", Joelle Noailly). In 2020, CIES interacted with IUCN, FAO and the Geneva Environment Network on policy events.

In addition, CIES researchers are regularly approached individually to participate in panel discussions and other policy-related events.

Finally, CIES Advisory Board had the honour to welcome a new board member in 2020, Michel Jarraud, former Secretary General of the World Meteorological Organization (WMO) – see box below.

CIES WELCOMED MICHEL JARRAUD AS NEW ADVISORY BOARD MEMBER IN 2020



Michel Jarraud is a scientist and a meteorologist with degrees from the prestigious French Ecole Polytechnique and the École de la Météorologie Nationale. He is a fellow of the American Meteorological Society (USA), a member of the Société Météorologique de France, the Royal Meteorological Society (United Kingdom) and the African Meteorological Society, as well as an Honorary Member of the Chinese Meteorological Society and the Cuban Meteorological Society.

Mr. Jarraud started his career with the French National Meteorological Service, Météo-France, as a researcher (September 1976-May 1978). He joined Météo-France again in January 1986 as Director of the Weather Forecasting Department, until December 1989. He devoted part of his career to the internationally renowned European Centre for Medium-Range Weather Forecasts (ECMWF). He was appointed Deputy Director of the Centre in 1991, having been Director of the Operational Department since 1990.

Mr. Jarraud joined the World Meteorological Organization (WMO) Secretariat as Deputy Secretary-General in January 1995. From 2004 to 2015, he served as the Secretary General of the WMO. He was also appointed by three consecutive World Meteorological Congress (WMC) – Fourteenth WMC on 1 January 2004; the Fifteenth WMC on 1 January 2008; and the Sixteenth WMC for a third and final four-year term, which commenced on 1 January 2012.

In 2012, he also assumed the Chair of UN-Water, the inter-agency mechanism that coordinates and strengthens the work of United Nations organizations and programmes on all issues relating to fresh water.

Contact:

The Graduate Institute, Geneva
Centre for International Environmental Studies (CIES)
Chemin Eugène-Rigot 2
1202 Geneva, Switzerland

E cies@graduateinstitute.ch
T +41 22 908 44 61

www.graduateinstitute.ch/cies