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12th IUCNAEL COLLOQUIUM 2014 HOSTED BY UNIVERSITAT ROVIRA I VIRGLI



WELCOME MESSAGE FROM THE SECRETARIAT OF THE IUCN ACADEMY OF ENVIRONMENTAL LAW



Welcome to the twelfth annual colloquium of the IUCN Academy of Environmental Law. We look forward to greeting familiar participants and to meeting delegates who are attending for the first time. The Academy, as you know, is an international network of environmental law faculties and research centres, now extending across some 56 countries from all regions of the world.

Representatives of member institutions are encouraged to attend the Annual Meeting on Thursday, July 3 at 5pm in Aula Magna where a full report on the past year's activities will be presented. For those of you whose institutions have not yet joined the Academy, membership information is available at one of the display stands in Sala de Junes.

It is a pleasure to welcome Ben Booth of Edgar Elgar Publishing and we urge you to make contact with him over the course of the colloquium. In addition to publishing a series of cutting-edge research-focused volumes on topical issues which draw on the research presented at the Academy's annual colloquium and special volumes derived from the Academy's workshops and symposia, EEP is interested in ideas for environmental law and policy monographs. Please visit the EEP display stand in Sala de Junes

The Academy colloquium traditionally accommodates side events in the form of Environmental Law Teaching and Research Workshops. This year is no exception with the Teaching Workshop taking place on the morning of June 30 and the Research Workshop the next morning on July 1. In addition to those events you are also invited to participate in one of many of the side events organized by various groups of scholars during the afternoon of June 30 and July 1.

The Academy welcomes the participation of graduate students in its panels and proceedings, and in particular to the annual Graduate Student Forum on Thursday, July 3 from 6 p.m. to 8 p.m. Our good wishes for the completion of your studies, and please keep in touch.

For those of you who are not familiar with the Academy's eJournal, editors Elizabeth Kirk e.a.kirk@dundee.ac.uk and Amanda Kennedy amanda.kennedy@une.edu.au are at the colloquium and would be interested in discussing contributions to the very extensive country survey that is becoming a hallmark of the eJournal.

The closing ceremony will provide a further opportunity to express our thanks to other members of the colloquium organization committee. Here, however, it is most appropriate to acknowledge the warm welcome provided by our hosts in Tarragona, CEDAT and Universitat Rovira i Virgili. They have worked with diligence and with enthusiasm to make arrangements for a wonderful Programme.

On behalf of the IUCN Academy of Environmental Law, its Chair, Professor Nilufer Oral, and the Governing Board, please enjoy the conference.

The Secretariat
IUCN Academy of Environmental Law
iucnael@uottawa.ca



WELCOME MESSAGE FROM FACULTY OF LEGAL SCIENCES



We are really pleased to host the 12th edition of the Annual Colloquium of the IUCN Academy of Environmental Law. The presence of the most prominent researchers in the world in this field at the URV is an excellent opportunity to attend and contribute to the exchange and discussion of the most innovative contributions to Environmental Law. This is the basis of knowledge and the development of Legal Science, including Environmental Law.

You have reached an area where the chemical and energy industry coexists with the cultural and natural heritage. In this context, Environmental Law plays a fundamental role to ensure the preservation of the great natural diversity we treasure. This explains the reasons that led this Faculty to make a strong commitment to teach and research in the field of Environmental Law.

We were the first faculty in Spain to introduce a compulsory subject of Environmental Law within the curriculum of Law Degree, and to implement a complete itinerary of expertise on this subject within the degree itself thereafter. Meanwhile, we implement a range of graduate programs in environmental law and create a research centre specialized in this field. As a result of this strong commitment, the Universitat Rovira i Virgili, in collaboration with various institutions, founded in 2007 the "Alcalde Pere Lloret" Centre for Environmental Law in Tarragona which, among other activities, publishes the Catalan Journal of Environmental Law. So, as you may see, the Faculty of Law of the URV has in its founding DNA the knowledge, the dissemination and the development of Environmental Law.

You are most welcome to our faculty. I wish you a fruitful stay in Tarragona from both the scientific and the human perspective, and from today you know that the doors of our institution are always wide open to you all.

Dr. Alfonso González
Dean



WELCOME MESSAGE FROM CEDAT



The Faculty of Law of the Rovira i Virgili University has been teaching and carrying out research into environmental law since it was created in 1992.

The Alcalde Pere Lloret Tarragona Center for Environmental Law Studies (CEDAT), founded in 2007, is a project that involves the Tarragona Town Council and the Department of Public Law of the Rovira i Virgili University (URV) in the field of environmental law. The objectives of CEDAT are to generate and socialize knowledge in the field of environmental law and, in particular, in the world of local management and administration.

The Centre bears the name of Alcalde Pere Lloret for his double role as a leading jurist and mayor of Tarragona (from April 1931 to October 1934, and between February and May 1936), and in recognition of his defence of democratic principles and human values in the governance of the city of Tarragona.

The Rovira i Virgili University has gradually become a reference point in Catalonia and Spain for environmental law thanks to continual hard work and a desire to improve that is still very much a characteristic of the people who work there every day.

The experience and knowledge acquired over the years is available to society through teaching—every year there are new students on the master's programme—, through research that opens up new paths to knowledge in environmental law, and through transfer of knowledge, which provides solutions to practical problems that society needs to solve.

For CEDAT, holding in Tarragona the IUCN Academy of Environmental Law 2014 Colloquium is a grand award as well as an honour.
Thank you so much.

Enjoy the Colloquium!

Dr. Antoni Pigrau
Professor of Public International Law and International Relations
Director of CEDAT



12th IUCNAEL COLLOQUIUM 2014 HOSTED BY UNIVERSITAT ROVIRA I VIRGLI



12th IUCNAEL COLLOQUIUM 2014 HOSTED BY UNIVERSITAT ROVIRA I VIRGLI

General Program



General Program

Monday, June 30

9.00 a.m. – 11.00 a.m. Rooms 201 / 202 Building A	TEACHING WORKSHOP at the IUCN Academy of Environmental Law 12th Annual Colloquium (See page 13)
10.45 a.m. – 11:00 a.m. Courtyard	BREAK
11.30 a.m. – 1.00 p.m. Room 201 Building A	TEACHING WORKSHOP at the IUCN Academy of Environmental Law 12th Annual Colloquium (See page 13)
1.00 p.m. – 2:00 p.m. Courtyard	LUNCH
2.00 p.m. – 3:30 p.m. CAMPUS URV	SIDE EVENTS (See page 35)
3.30 p.m. – 4:00 p.m. Courtyard	BREAK
4.00 p.m. – 7:00 p.m. CAMPUS	SIDE EVENTS (See page 35)
6.00 p.m. – 7:00 p.m.	OPTIONAL EVENT - GUIDED TOUR – TOP TARRAGONA http://www.iucnael2014.cat/program/social-programme/
6:00 p.m. – 8:00 p.m.	OPTIONAL EVENT: THE SECURITY; AN EXCUSE FOR BREACHE ENVIRONMENTAL LAW http://www.iucnael2014.cat/program/social-programme/
6.45 p.m. – 11.59 p.m. The bus will depart from the CAMPUS URV	OPTIONAL EVENT: MEDITERRANEAN SIGNATURE CUISINE EXPERIENCE - RESTAURANT AQ http://www.iucnael2014.cat/program/social-programme/



Tuesday, July 1

9.00 a.m. – 10.45 a.m. Room 201 Building A	RESEARCH WORKSHOP at the IUCN Academy of Environmental Law 12th Annual Colloquium Hydraulic Fracturing: A Comparative Assessment (See page 17)
10.45 a.m. – 11:00 a.m. Courtyard	BREAK
11:00 a.m. – 1.00 p.m. Room 201 Building A	RESEARCH WORKSHOP at the IUCN Academy of Environmental Law 12th Annual Colloquium Hydraulic Fracturing: A Comparative Assessment (See page 17)
1.00 p.m. – 2:00 p.m. Courtyard	LUNCH
2.00 p.m. – 3:30 p.m. CAMPUS	SIDE EVENTS (See page 35)
3.30 p.m. – 4:00 p.m. Courtyard	BREAK
4.00 p.m. – 7:00 p.m. CAMPUS	SIDE EVENTS (See page 35)
6.00 p.m. – 7:00 p.m.	OPTIONAL EVENT - GUIDED TOUR – TOP TARRAGONA http://www.iucnael2014.cat/program/social-programme/
7:00 p.m. – 7:45 p.m. Courtyard	SPECIAL EVENT - HUMAN TOWERS EXHIBITION http://www.iucnael2014.cat/program/social-programme/
8.00 p.m. – 10:00 p.m. TARRAGONA PROVINCIAL COUNCIL AUDITORIUM Pere Martell, 2	SPECIAL EVENT – WELCOME RECEPTION Hosted by the TARRAGONA PROVINCIAL COUNCIL http://www.iucnael2014.cat/program/social-programme/



Wednesday, July 2

OPENING SESSION

9:00 a.m. – 10:00 a.m. AULA MAGNA (Building D)	Chair: Alfonso González Bondia , Dean, Faculty of Legal Sciences Antoni Pigrau , Director, Tarragona Centre for Environmental Law Studies (CEDAT/URV) Josep Fèlix Ballesteros Casanova , Mayor of Tarragona Nilufer Oral , Chair, IUCN Academy of Environmental Law Antonio Herman Benjamin , Chair, World Commission on Environmental Law, IUCN Alejandro Iza , Director, IUCN Environmental Law Centre (ELC) Eva Duer , Division of Environmental Law & Conventions, United Nations Environment Programme (UNEP) Yves Le Bouthillier , Director, IUCN Academy of Environmental Law Josep Enric Llebot i Rabagliati , Secretary of Environment and Sustainability, Government of Catalonia
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FIRST PLENARY SESSION

10:00 a.m. – 11:00 a.m. AULA MAGNA (Building D)	Climate Resilience, Energy Law and Energy Governance Chair: Willemien Du Plessis (North-West University, South Africa) Michael Gerrard (Columbia University Law School, USA) <i>Legal Processes for Urban Electric System Planning for Climate Resilience</i> Zen Makuch (Imperial College London, UK) <i>Regulatory Strategy for Promoting Low Carbon Energy Development: Understanding the Energy and Competition Law Nexus</i>
11.00 a.m. – 11:30 a.m. Courtyard	BREAK
11.30 a.m. – 1:00 p.m.	BREAKOUT SESSION 1 (Various locations – see pages 19–33)
1.00 p.m. – 2:00 p.m. Courtyard	LUNCH
2.00 p.m. – 3:30 p.m.	BREAKOUT SESSION 2 (Various locations – see pages 19–33)
3.30 p.m. – 4:00 p.m. Courtyard	BREAK
4.00 p.m. – 5:30 p.m.	BREAKOUT SESSION 3 (Various locations – see pages 19–33)
6.00 p.m. – 7:00 p.m.	OPTIONAL EVENT - GUIDED TOUR – ROMAN TARRAGONA http://www.iucnael2014.cat/program/social-programme/
7.00 p.m. – 9:30 p.m. The buses will depart from outside the Hotel CIUTAT DE TARRAGONA / Plaça de la Imperial Tàrraco, 5	OPTIONAL EVENT - WINE TASTING FACULTY OF OENOLOGY - MAS DELS FRARES EXPERIMENTAL CELLAR http://www.iucnael2014.cat/program/social-programme/



Thursday, July 3

SECOND PLENARY SESSION	
9:00 a.m. – 11:00 a.m. AULA MAGNA (Building D)	Energy Transition, Policies and Fundamental Rights Chair: Nathalie Des Rosiers (University of Ottawa, Canada) Robert Percival (University of Maryland, USA) <i>Why Has the Transition from Fossil Fuel to Green Energy Been So Difficult and What Can Be Done to Facilitate It?</i> Marjan Peeters (Maastricht University, Netherlands) <i>Transforming Renewable Energy Law: the case of the EU</i> Laode Syarif (Hasanuddin University Law School, Indonesia) <i>Rich Bio-fuels Potential and the Absence of Adequate Legal and Policy Framework</i> Jennifer McKay (University of South Australia, Australia) <i>New Institutional Arrangements to Integrate Water and Energy Laws and Policies in the Australian Federation</i> Jan Jans (University of Groningen, Netherlands) <i>Collision of Fundamental Rights in the EU – Environmental Regulation and the Right on Property</i>
11.00 a.m. – 11:30 a.m. Courtyard	BREAK
11.30 a.m. – 1:00 p.m.	BREAKOUT SESSION 4 (Various locations – see pages 19-33)
1.00 p.m. – 2:00 p.m. Courtyard	LUNCH
2.00 p.m. – 3:30 p.m.	BREAKOUT SESSION 5 (Various locations – see pages 19-33)
3.30 p.m. – 4:00 p.m. Courtyard	BREAK
4.00 p.m. – 5:00 p.m. AULA MAGNA (Building D)	Mar Campins (Universitat de Barcelona / CEDAT) will introduce the DISTINGUISHED SPEAKER , Dr. Ludwig Krämer (University of Bremen, Germany) who will deliver his lecture on <i>The Integration of Energy Requirements into Environmental Policy</i>
5.00 p.m. – 6:00 p.m. AULA MAGNA (Building D)	ANNUAL MEETING OF THE IUCN ACADEMY OF ENVIRONMENTAL LAW
6.00 p.m. – 7:30 p.m.)	GRADUATE STUDENT FORUM
6.00 p.m. – 7:30 p.m.	OPTIONAL EVENT - GUIDED TOUR – TARRAGONA E-BIKE TOUR http://www.iucnael2014.cat/program/social-programme/
From 8:00 p.m. Passeig de les Palmeres	OPEN EVENT - DINNER UNDER FIREWORKS http://www.iucnael2014.cat/program/social-programme/



Friday, July 4

THIRD PLENARY SESSION

9:00 a.m. – 11:00 a.m.
AULA MAGNA (Building D)

Energy and Environmental Justice

Chair: **Maria Marquès** (CEDAT, Universitat Rovira i Virgili, Spain)

Alberto Acosta, (FLACSO, Ecuador)

La Naturaleza con Derechos - Una propuesta para un cambio civilizatorio

Joan Martínez Alier (ICTA, Universitat Autònoma de Barcelona, Spain)

The metabolic flow of energy and materials, and the growth of environmental conflicts

Carmen González (Seattle University School of Law, USA)

The Environmental Justice Implications of Biofuels

Marcos Orellana (CIEL, Washington, USA)

¿Se les puede exigir justicia climática a las cortes de justicia?

Antoni Pigrau (CEDAT, Universitat Rovira i Virgili, Spain)

Acciones entrelazadas para reclamar la responsabilidad de las empresas transnacionales por daños graves al medio ambiente

11.00 a.m. – 11:30 a.m.
Courtyard

BREAK

11.30 a.m. – 1:00 p.m.

BREAKOUT SESSION 6 (Various locations – see pages 19-33)

1.00 p.m. – 2:00 p.m.
Courtyard

LUNCH

2.00 p.m. – 3:30 p.m.

BREAKOUT SESSION 7 (Various locations – see pages 19-33)

3.30 p.m. – 4:00 p.m.
Courtyard

BREAK

CLOSING SESSION

4.00 p.m. – 5:00 p.m.
AULA MAGNA (Building D)

Chair: **Alfonso González**, Dean, Faculty of Legal Sciences, URV

Antoni Pigrau, Director, Tarragona Centre for Environmental Law Studies (CEDAT/URV)

Jamie Benedickson, Director, IUCN Academy of Environmental Law

Yanti Fristikawati (Atma Jaya Catholic University of Indonesia): Presentation of the 2015 Colloquium

7.45 p.m. – 2:00 a.m.
The bus/s will depart from outside the Hotel CIUTAT DE TARRAGONA. Plaça de la Imperial Tàrraco, 5
Bus service to return to Hotel Ciutat de Tarragona will be available

COLLOQUIUM DINNER AND MUSIC

RESTAURANT VERMUTS ROFES (Sant Vicenç, 21-23, Reus)

<http://www.iucnael2014.cat/program/social-programme/>



12th IUCNAEL COLLOQUIUM 2014 HOSTED BY UNIVERSITAT ROVIRA I VIRGLI

Teaching Workshop



Teaching Workshop at the IUCN Academy of Environmental Law 12th Annual Colloquium - June 30, 2014

9:00 a.m. – 9:15 a.m.: Opening session (Room 201)

Maria Marquès (Universitat Rovira i Virgili, Spain)

Sophie Riley (University of Technology Sydney, Australia)

Co-chairs of the Teaching and Capacity Building Committee

9:20 a.m. – 11:00 a.m. PANEL 1 (Breakout session)

	Room 201 Chair: Maria Marquès (Universitat Rovira i Virgili)	Room 202 Chair: Karen Bubna-Litic (University of South Australia)
9:20 a.m.-9:45 a.m.	Gloria Estenzo Ramos (University of Cebu, Philippines) <i>A Work in Progress</i>	Robert Kibugi (University of Nairobi, Kenya) <i>Problem-Based Learning: Lessons from use of film to frame and solve legal issues</i>
9:45 a.m. – 10:10 a.m.	James R. May & Erin Daly (Widener University, USA) <i>Law School Practicum on Global Environmental Constitutionalism</i>	Laurent Vassallo & Chrysta Pellissier (Institute of Technology, Béziers, France) <i>How can a MOOC promote knowledge acquisition in environmental law: The example of the MOOC "Sustainable Cities: how to be an agent of change"</i>
10:10 a.m. -10:35 a.m.	Sophie Gambardella & Eve Truilhé-Marengo (Aix-Marseille Université, France) <i>Clinical legal education in the field of environment – The experience of the environment clinic of Aix-Marseille université</i>	Isabel Vilaseca, Erea Suárez, Patricia Melissa Sangama. Fred Larreategui (Universitat Rovira i Virgili, Spain) <i>Beyond mootng: a crucial element of the Law Curriculum at Universities</i>
10:35 a.m. -11:00 a.m.	Susana Borràs (Universitat Rovira i Virgili, Spain) <i>La virtualización de un máster en Derecho Ambiental: retos y estrategias / The virtualization of an Environmental Law Master's degree program: challenges and strategies</i>	Koh Kheng Lian (National University of Singapore) <i>ASEAN: Tackling Zoonotic Diseases- Avian Flu, SARS & H1N1</i>



11:00 a.m. – 11:30 a.m. – Coffee Break

11:30 a.m. – 1:00 p.m.: PANEL 2 (Plenary session)

Room 201

Chair: Sophie Riley

(University of Technology Sydney, Australia)

11:30 a.m. -11:55 a.m.	Lye Lin-Heng (National University of Singapore) <i>Multi-disciplinary and inter-disciplinary teaching – The Masters in Environmental Management (MEM) & the Bachelor in Environmental Studies (BES) Program, National University of Singapore</i>
11:55 a.m. -0:20 p.m.	Neil Lubbe (North-West University, South Africa) <i>Applying a common but differentiated approach to post-graduate teaching of environmental law: bridging gaps in Africa</i>
0:20 p.m. -0:45 p.m.	Volker Mauerhofer (United Nations University, Japan) <i>Teaching non-lawyers in international environmental law through cases: experiences from the United Nations University</i>
0:45 p.m. -1:00 p.m.	Eva Duer (UN Environment Programme) <i>The InforMEA Project</i>

1:00 p.m.: Closing session (Room 201)

There will be simultaneous translation in Spanish and English in all rooms.

Oral presentations shall last 15 minutes, and shall be followed by 10 minutes of discussion. To make sure the Workshop runs smoothly, speakers are asked to set up and test their equipment and check their timing beforehand.

Speakers will have access to a computer, projector and internet connection





Research Workshop



Research Workshop at the IUCN Academy of Environmental Law 12th Annual Colloquium - June 30, 2014

Hydraulic Fracturing: A Comparative Assessment

Room 201

09:00 a.m.-09:15 a.m.	Introduction Nilufer Oral (Istanbul Bili University, Turkey), Welcome Remarks Melissa Powers (Lewis & Clark Law School, USA), <i>Workshop Introduction</i>
09:15 a.m.-10:00 a.m.	Environmental Regulation of Fracking: Lessons Learned and Unanswered Questions Moderator: Rob Fowler Jill Morgan (University of Swansea, UK): <i>Subsurface Ownership and Hydraulic Fracturing: Not Under My Backyard</i> Keith B. Hall (Louisiana State University, USA): <i>Hydraulic Fracturing and Groundwater Quality</i> Gregg Macey (Brooklyn Law School) / Orr Karassin (The Open University, Israel): <i>Public Health: Knowledge Gaps and Regulatory Response.</i>
10:00 a.m.-10:45 a.m.	Emerging Regulatory Regimes as Hydraulic Fracturing Expands: A Comparative Review Moderator: Amanda Kennedy Willemien du Plessis (North-West University, South Africa): <i>Regulation of Hydraulic Fracturing in South Africa: A Life Cycle Approach?</i> Rosemary Lyster (The University of Sydney): <i>Planning and Water Law Implications for Energy Project Developments in Australia</i> Raquel Gutiérrez Nájera (Universidad de Guadalajara, México): <i>El cambio climático y las implicaciones de la fractura hidráulica. ¿Está preparado México para el fracking</i>
10:45 a.m.-11:00 a.m.	Health Break
11:00 a.m.-11:45 a.m.	The Regulation of Fracking in Europe: Top-Down or Bottom-Up Regulation Moderator: Endrius Cocciolo (CEDAT-Universitat Rovira i Virgili, Spain) Nathalie Hervé-Fournereau (Université de Rennes 1, France): <i>European Union and Hydraulic Fracturing, Between Inconsistencies and Controversies – Legal Lessons for the Sustainable Energy Transition</i> Badr Zerhdoud (Université de Genève, Switzerland): <i>The Shale Gas and the Hydrological Fracture: Challenges & Prospects in the European Union</i> Jonathan Verschuuren (Tilburg University, Netherlands): <i>Hydraulic Fracturing and Future Generations: The Role of Local Governments</i> Jimmy May (Widener University, USA): <i>The Collision of Hydraulic Fracturing and Environmental Constitutionalism in Context</i>
11:45 a.m.-12:45 p.m.	International and Transboundary Regulation Moderator: Tumai Murombo Francesco Sindico (University of Strathclyde, UK) / Tomas Lanardonne: <i>Shale Gas and Groundwater: Managing Transboundary Challenges</i> Marta Abegón Novella (Universitat Pompeu Fabra, Spain): <i>Necesidades Energéticas y Límites en su Obtención: Fracking vs. Principios Generales en Materia de Protección Internacional del Medio Ambiente</i> Jan Glazewski (University of Cape Town, South Africa): <i>The Potential and Application of the Precautionary Principle in South African Law in Environmental Decision-making: A Case Study of the Proposal to Undertake Hydraulic Fracturing in the Karoo</i>
12:45 p.m.-1:00 p.m.	Conclusion and next steps Melissa Powers (Lewis & Clark Law School, USA)



Breakout sessions

I. FOSSIL FUELS AND OIL PEAK			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room 424	I.A. Fossil fuels and oil peak. Coal, coal gas, rare earth mining and unconventional energy sources
			Chair: David Estrin (University of Ottawa; University of Waterloo, Canada)
			The hoarding instinct? South African coal and the governance of 'strategic minerals'
			Tracy-Lynn Humby (University of the Witwatersrand, South Africa)
			Coal Seam Gas mining governance, harm and international agreements: how bad are things?
			Janice Gray (University of New South Wales, Australia)
			The Environmental Politics of Responsible Rare Earth Mining in North America
			Roopali Phadke (Macalester College, USA)
			Legal Challenges to the Canadian Oil Sands: Approaches from Private and Public Law, Ecological Justice and Indigenous Perspectives
			Heather McLeod-Kilmurray (Centre for Environmental Law and Global Sustainability. University of Ottawa, Canada)
			Corporate Environmental Responsibility and unconventional energy sources (shall gas/tar sands)
			Katinka Jesse (North West University, South Africa) / Erik Koppe (Leiden Law School, Netherlands)

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room 425	II.A. Humankind, Nature and Energy
			Chair: Klaus Bosselmann (University of Auckland, New Zealand)
			Re-configuring the relationship between peoples, communities, ecosystems, corporations and the State in the context of energy production-in search of energy production philosopher's stone
			Elena Merino Blanco (Bristol Law School, UWE, UK)
			La garantía social de los derechos de la naturaleza en Ecuador: el derecho constitucional a la resistencia en la defensa de los recursos naturales
			Albert Noguera Fernández (CEDAT-Universitat Rovira i Virgili, Spain)
			Ancient Energy Cosmologies for Regenerative Energy Law
			Elaine Hsiao (University of British Columbia, Canada)
			Climate Change - Culture Change
			Linda Te Aho (University of Waikato, New Zealand)
			Solidarity as a Conservation Ethic
			Patricia Farnese (University of Saskatchewan, Canada)

III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room 516	III.A. Climate Change. Mitigation Strategies (I)
			Chair: Melissa Powers (Lewis & Clark Law School, USA)
			Green Innovation as a Climate Change Mitigation Strategy
			Natalie P. Stoianoff (University of Technology, Sidney, Australia / Karen Bubna-Litic (University of South Australia, Australia)
			Initiatives to mitigate the effects of climate change in Brazil: an economic analysis of the ecological ICMS
			Nelson Paes / Marisa Durães Paes (Ministry of Finance of Brazil)
			Deforestation and renewable energy: why a dialogue between renewable energy policy and REDD+ is necessary?
			Ernesto Roessing Neto (Vrije Universiteit Brussel, Belgium; Universidade do Estado do Amazonas, Brasil)
			REDD Policy in Indonesia : Reality in Grey Area
			Deni Bram (Tarumanagara University, Indonesia)
			Rediba-Elena project. Barcelona province's instrument to implement Sustainable Energy Action Plans (SEAP's)
			Francesc de Sàrraga Mateo (Barcelona Provincial Council / Diputació de Barcelona, Spain)

IV: ENERGY, SOCIAL AND ENVIRONMENTAL IMPACTS AND LITIGATION			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room 522	IV.A. Hydroelectric Dams and Community Impacts
			Chair: Yanti Fristikawati (Atma Jaya Catholic University of Indonesia)
			Large hydroelectric dams and forced displacement, environmental refugees?
			Beatriz Felipe Pérez (CEDAT-Universitat Rovira i Virgili, Spain)
			Belo Monte hydroelectric plan complex- A unsustainability social-environment model that challenges the legal conflict resolution mechanisms
			Norma Sueli Padilha (UNISANTOS; UFMS) / Josilene Ortolan di Pietro (UFMS); Universidade Presbiteriana Mackenzie - SP, Brasil)
			Hydro Energy and Human Rights in the Mekong Region
			Ben Boer (University of Sydney, Australia; Wuhan University, China)
			Hydroelectric dams: development at the cost of human and environmental rights
			Jennifer Cameron (University of Maryland Francis King Carey School of Law, USA)

V. TECHNOLOGY, ENERGY AND LAW			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room 523	V.A. Technology, Energy and Law: General Issues
			Chair: Nilufer Oral (Istanbul Bili University, Turkey)
			Technology, Energy and Law : the need for binding EU R&D&I targets!
			Kurt Deketelaere (University of Leuven; University of Malta; University of Dundee)
			Wind Energy Technology, Science, and Society
			Jeremy Firestone (University of Delaware: College of Earth, Ocean and Environment; Center for Carbon-free Power Integration, USA)
			Energy and pressure on natural resources: a perspective of emerging legal issues?
			Alexandra Langlais (University of Rennes 1; CNRS; IODE, France)
			Environmental criminal law to protect the environment from damage caused by new technologies for the extraction of energy resources
			Teresa Fajardo (University of Granada, Spain / CEDAT)

VI. ENERGY AND SMART CITIES: ROLE OF CITIES IN ENERGY USE AND PRODUCTION			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room 202	VI.A. Energy and Smart Cities. Building new experiences over the world
			Chair: Michael Gerrard (Columbia University Law School, USA)
			Building an energy-efficient India: Case-Study of Delhi NCR
			Nawneet Vibhaw (Jindal Global Law School, India)
			Mexico City as real sustainable city: energy and public transportation
			Ivett Montelongo Buenavista (Instituto Mexicano de Investigaciones en derecho ambiental, Mexico)
			El proyecto Tarragona Smart Mediterranean City
			Santiago José Castellá Surribas (CEDAT-Universitat Rovira i Virgili, Spain)
			Improving Energy Structure for a Sustainable Future -- The Story of Beijing
			Yuhong Zhao (The Chinese University of Hong Kong)
Energy and Smart Cities. Perspectives from a City-State, Singapore			
Lye Lin-Heng (APCEL, National University of Singapore) / Melissa LOW (National University of Singapore)			

VII. BIOFUELS			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room 201	VII.A. Biofuels. Biofuels, Regulation and Sustainability
			Chair: Alba Nogueira (Universidade de Santiago de Compostela, Spain / CEDAT)
			La deslocalización de las emisiones de gases de efecto invernadero: la inclusión del factor ILUC en la reorientación de la política de biocombustibles de la Unión Europea
			Susana Borràs Pentinat (CEDAT-Universitat Rovira i Virgili, Spain)
			Biotecnología, cambio climático y biocarburantes
			Isabel Hernández San Juan (Universidad Carlos III de Madrid, Spain)
			Rules on Production and Process Methods in EU Public Procurement: The Case of Renewable Energy and Biofuels
			Max Salomon Jansson (IES at Vrije Universiteit Brussels, Belgium)
			Sustainability of Biofuels as a Global Regulatory Issue
			Taotao Yue (Maastricht University, Netherlands)
The Legitimacy of EU's Private Biofuel Governance			
Seita Romppanen (University of Eastern Finland; UEF Centre for Climate Change, Energy and Environmental Law, Finland)			

X. ENERGY MARKET REGULATION			
Breakout Session 1	Wednesday 2 11:30 am /1:00 pm	Room Sala de Graus	X.A. Energy Market Regulation. Privatization, Market Mechanisms and Public Intervention
			Chair: Victor Merino Sancho (CEDAT-Universitat Rovira i Virgili, Spain)
			The environmental impact of Mexican Energy Reform
			José Juan González / Angie Reyes Arista (Metropolitan Autonomous University, Mexico)
			Privatization of public electricity company as a strategy for sustainable energy use in Nigeria
			Kayode Oyende (Lagos State University, Nigeria)
			Certificación como herramienta de regulación ambiental del mercado energético
			Dayanne Brenna Campos dos Santos Cardoso / Lise Tupiassu-Merlin (Centro Universitário do Pará - CESUPA, Brasil)
			La reforma energética en México de 2013. ¿Hacia un modelo energético integral o dependiente de hidrocarburos?
Daniel Iglesias Márquez / Stephanie Victoria Ascensio Serrato (CEDAT-Universitat Rovira i Virgili, Spain)			

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 2	Wednesday 2 2:00 pm /3:30 pm	Room 425	II.B. Environmental Democracy and Environmental Justice
			Chair: Rob Fowler (University of South Australia, Australia)
			Can it work? Environmental Justice from an energy supply security perspective
			Leonie Reins (KU Leuven, Belgium)
			Energy Justice and Fragmented Governance
			Jordi Jaria i Manzano (CEDAT-Universitat Rovira i Virgili, Spain)
			Environmental Democracy and Electrical Power Management Models
			Isabel Vilaseca Boixareu (CEDAT-Universitat Rovira i Virgili, Spain)
			The Future of Environmental Constitutionalism in Advancing Energy for a Fair Society in a Safe Planet
James R. May (Widener University. Environmental Law Center, USA) / Erin Daly (Widener University, USA)			

III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 2	Wednesday 2 2:00 pm /3:30 pm	Room 202	III.B. Climate Change. Mitigation Strategies (II)
			Chair: Michael Kidd (University of KwaZulu-Natal, South Africa)
			La intervención sobre la contaminación lumínica como instrumento de eficiencia y ahorro energético y de mitigación del cambio climático. Experiencias en España
			Lucía Casado Casado (CEDAT-Universitat Rovira i Virgili, Spain)
			International Renewable Electricity Standards: A Sectoral Strategy for Mitigating Climate Change
			Melissa Powers (Lewis & Clark Law School: Green Energy Institute, USA)
			Legal aspects of air pollution reduction due to car traffic
			Mirzet Husic (Pravni fakulteti Univerze, Slovenia)
			Climate Change Regulation: Challenges for the International Shipping Sector
			Stathis Palassis (University of Technology, Sydney, Australia)
			Regulating Emissions from the Electricity Generation Sector: A Comparative Review
			James Prest (Australian National University: Centre for Climate Law and Policy, Australia)

IV: ENERGY, SOCIAL AND ENVIRONMENTAL IMPACTS AND LITIGATION			
Breakout Session 2	Wednesday 2 2:00 pm /3:30 pm	Room 201	IV.B. International and Transnational Litigation and Regime Interactions
			Chair: Carmen González (Seattle University School of Law, USA)
			Developing access-to-justice standards for transnational impact litigation: What role for national courts?
			Antonio Cardesa-Salzmann (CEDAT-Universitat Rovira i Virgili, Spain)
			Transnational Companies and the applying of article 7.2 of Regulation (EU) No. 1215/2012
			Pia Moscoso Restovic (Universidad de Atacama, Chile)
			Redressing environmental injustice through litigations by indigenous communities: the case of Ecuador
			Andrea Olsen (University of Maryland Carey School of Law, USA)
			Race-to-the-bottom? El Acuerdo trasatlántico de Inversiones y comercio y las implicaciones del "investor-state dispute-settlement"
			Alba Nogueira (Universidade de Santiago de Compostela, Spain / CEDAT)
			What role does investor-State arbitration play in tackling climate change?
Lorena Martínez Hernández (CEDAT-Universitat Rovira i Virgili, Spain)			



V. TECHNOLOGY, ENERGY AND LAW			
Breakout Session 2	Wednesday 2 2:00 pm /3:30 pm	Room 523	V.B. Environmental Governance , Technology, Energy and Law
			Chair: Trevor Daya-Winterbottom (University of Waikato, New Zealand)
			Complexity in Global Energy-Environment Governance
			Andrew Long (University of Missouri - Kansas City, USA)
			The Limits of Law—Does Our Contemporary Usage of Facts Meet The Requirements Set for Fair Regulation?
			Tiina Paloniitty (University of Helsinki, Finland)
			How to ensure nuclear safety governance independence?
			Hubert Delzangles (Sciences-Po Bordeaux; CRIDEAU, France) / Christophe Krolik (Université de Limoges, France)
			Nuclear Energy in the European Union - the need for a level playing field
			Tobias Heldt (Maastricht University, Netherlands)

VI. ENERGY AND SMART CITIES: ROLE OF CITIES IN ENERGY USE AND PRODUCTION			
Breakout Session 2	Wednesday 2 2:00 pm /3:30 pm	Room Sala de Graus	VI.B. Energy and Smart Cities. Planning the transformation of cities
			Chair: Santiago José Castellá Surribas (CEDAT-Universitat Rovira i Virgili, Spain)
			Interacción de las estrategias de mitigación y adaptación al cambio climático para la transformación del parque de edificios existentes de las ciudades: Las directrices Blue Building
			Teresa Parejo Navajas (Universidad Carlos III de Madrid)
			Recycling the City Network: Rethinking the Transformation of Cities (RECNET)
			Jordi Morató (Universitat Politècnica de Catalunya, Spain)
			Intervención del Estado en actividades privadas inmobiliarias para la promoción de la agricultura familiar en zonas periurbanas
			Miguel Etinger de Araujo Junior / Erika Juliana Dmitruk / Karina Alves (Universidade Estadual de Londrina, Brasil)
			Legal Protection of urban trees – an essential measure to assist in the reduction of the urban heat island effect
			Paul Leadbeter (The University of Adelaide, Australia)
			Energía y Smart Cities: contrato de colaboración entre el sector público y el sector privado
			Marina Rodríguez Beas (CEDAT-Universitat Rovira i Virgili, Spain)
			Environmental legislation to protect guarani aquifer system in the city of Araraquara-Sao Paulo-Brazil
Luciana Cordeiro de Souza Fernandes (Universidade Estadual de Campinas, Brasil)			

VII. BIOFUELS			
Breakout Session 2	Wednesday 2 2:00 pm /3:30 pm	Room 522	VII.B. Biofuels. Biofuels Governance. A Comparative Analysis (I)
			Chair: Laode Syarif (Hasanuddin University Law School, Indonesia)
			Biofuels Governance: An illustration of fundamental challenges to traditional environmental law and policy
			Paul Martin (Australian Centre for Agriculture and Law; University of New England, Australia)
			The Philippine Biofuels Law: A Climate Change Mitigation Strategy
			Amado S. Tolentino, Jr. (San Beda Alabang School of Law, Philippines)
			An analysis of Brazilian policies, institutional and legal regulation relative to bio energy investments
			Aline Pacheco Pelucio / Patricia Faga Iglecias (University of São Paulo, Brasil)
			Incipient Biofuels Legislation in Kenya: Navigating the Legal Minefield
			Omondi Robert Owino (Bayreuth University, Germany)
			Biofuels Transformation in China: Will the EU Biofuels Experience Shed Light on it?
Lei Guo / Frank Maes (Ghent University, Belgium)			

X. ENERGY MARKET REGULATION			
Breakout Session 2	Wednesday 2 2:00 pm /3:30 pm	Room 516	X.B. Energy Market Regulation and Policy
			Chair: LeRoy Paddock (The George Washington University Law School, USA)
			Market-Based Energy Efficiency Policies in the Developing World: Problems and Prospects
			Noah Sachs (University of Richmond; Merhige Center for Environmental Studies, USA)
			Getting to Utility 2.0: Merging Technological Innovation and Capital Deployment with the Energy Market Regulatory Paradigm
			James M. Van Nostrand (West Virginia University College of Law. Center for Energy and Sustainable Development, USA)
			Structuring problems, prioritizing solutions: the Japanese forest-energy context analyzed by 3-D Sustainability
			Volker Mauerhofer (University of Vienna, Aoyama Gakuin University) / Takashi Hayashi (PRIMAF)
			The role of law and policy in promoting greater uptake of renewable energy and greater energy efficiency: A view from New Zealand
			David Grinlinton (University of Auckland. New Zealand Centre for Environmental Law, New Zealand)
			Competition law perspectives on attainment of renewable energy targets
			James Prest (Australian National University. Centre for Climate Law and Policy, Australia)



I. FOSSIL FUELS AND OIL PEAK			
Breakout Session 3	Wednesday 2 4:00 pm / 5:30 pm	Room 202	I.B. Fossil fuels and oil peak. Towards the end of the oil age?
			Chair: Jessica Wentz (The George Washington University Law School, USA)
			Legal Options to Deal with Diverging Claims Concerning Use of Underground Space
			Jana Bovet (Helmholtz Center for Environmental Research, UFZ, Germany)
			Brazil's pre-salt layer in the world risk society context: The challenge of the 21st century
			José Rubens Morato Leite / Flávia França Dinnebier (UFSC, Brasil) / Marina Demaria Venancio (CNPq, Brasil)
			Rethinking Development Away From Petroleum Dependency: Ecuador's Yasuní-ITT Initiative
			Malka San Lucas Ceballos (CEDAT-Universitat Rovira i Virgili, Spain)
			Drilling in Paradise: Oil extraction in protected areas of Ecuador, Uganda, and the United States
			Haley Peterson (University of Maryland Francis King Carey, USA)

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 3	Wednesday 2 4:00 pm / 5:30 pm	Room 425	II.C. Environmental Governance and Public Participation
			Chair: Rafael González Ballar (Universidad de Costa Rica; ILANUD)
			Coal Seam Gas, protest, public participation and change
			Angela Dwyer (University of Technology, Sidney, Australia)
			Energy cooperatives and social participation. Can we talk about commonfare?
			Victor Merino Sancho (CEDAT-Universitat Rovira i Virgili, Spain)
			Access to Environmental Information Held by the Private Sector
			Juliana Zuluaga Madrid (KU Leuven, Belgium)
			Good Governance for Sustainable Energy Development: An Australian Case Study
			Amanda Kennedy / Jacqueline Williams (Australian Centre for Agriculture and Law; University of New England, Australia)

III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 3	Wednesday 2 4:00 pm / 5:30 pm	Room Sala de Graus	III.C. Climate Change. Adaptation Strategies (I)
			Chair: William Piermattei (University of Maryland, USA)
			La adaptación al cambio climático en la Unión Europea: potencialidades y límites de una política multinivel
			Beatriz Pérez de las Heras (University of Deusto, Spain)
			" The Singapore Declaration on Climate Change, Energy and the Environment: Energy Smart Cities & Eco Cities"
			Koh Kheng Lian (National University of Singapore)
			La gestión pública del cambio climático en América Latina. Una visión prospectiva
			Erick Pajares G. (Grupo Biosfera, Perú) / Carlos Loret de Mola
			The mediatization of the environmental conflict: communication and meaning-making proceses of risks and benefits
			Jordi Prades Tena (URV; ASTERISC Communication Research Group, Spain)

IV: ENERGY, SOCIAL AND ENVIRONMENTAL IMPACTS AND LITIGATION			
Breakout Session 3	Wednesday 2 4:00 pm / 5:30 pm	Room 201	IV.C. International Litigation
			Chair: Shawkat Alam (Macquarie University. Center for Environmental Law, Australia)
			Combustibles sostenibles y combustibles insostenibles: ¿pueden ser iguales para el Derecho de la OMC?
			Xavier Fernández Pons (Universitat de Barcelona, Spain)
			The Chinese rare earths case: environmental concerns between justification and excuse
			Donato Gualtieri (University of Pavia, Italy)
			Water-related Conflict in Southern Africa and the SADC Protocol on Shared Watercourses
			Ed Couzens (University of KwaZulu-Natal, South Africa)
			How making justice for environment? A European Regard
			Valeriu M. Ciucà ("Alexandru Ioan Cuza", University of Iasi, Romania) / Aurora Ciucà ("Stefan cel Mare" University of Suceava, Romania)



V. TECHNOLOGY, ENERGY AND LAW			
Breakout Session 3	Wednesday 2 4:00 pm / 5:30 pm	Room 523	V.C. Environmental Governance, Intellectual Property and New Technologies
			Chair: James M. Van Nostrand (West Virginia University College of Law, USA)
			Crisis energética: la factibilidad (o no) del uso de los derechos de propiedad intelectual hacia la sostenibilidad
			Liz Beatriz Sass (UFSC, Brasil) / Melissa Ely Melo (CNPq; Universidade Federal de Santa Catarina, Brasil)
			Alberta paves the way for a cleaner coal technology: the regulatory framework of Underground Coal Gasification
			Astrid Kalkbrenner (University of Calgary: Canadian Institute of Resources Law, Canada)
			Policy directions for mitigating the social risks of new low carbon energy technologies
			Elodie Le Gal (University of New England: Australian Centre for Agriculture and Law)
			Access and ownership of humidity: new models of regulation and governance of natural resources
			Fabricao Ramos Ferreira (Centro Universitário IESB, Brasil)

IX - WATER AND ENERGY			
Breakout Session 3	Wednesday 2 4:00 pm / 5:30 pm	Room 424	IX.A. Water and Energy. Protection of Marine Environment
			Chair: Jan Glazewski (University of Cape Town, South Africa)
			Developing an effective legal regime to prevent and remediate oil spills
			Teal Hinga (University of Maryland Francis King Carey School of Law, USA)
			Oil exploitation and marine biodiversity conservation in Brazil: Mechanisms of environmental compensation
			Fernanda Salgueiro Borges (Universidade Presbiteriana Mackenzie, Brasil) / Solange Teles da Silva (Universite Aix-Marseille III, France)
			Natural resources, sustainable energy and disaster risk: Is Brazil prepared to the pre-salt exploitation?
			Mauricio Duarte dos Santos (M. University of Santos and U.C.Montse Serrat; CUS) / Carolina Dutra (Mackenzie Presbyterian University; UCMS) / Eliane Maria Octaviano Martins (CUS) Brasil
			An Enhanced Regime for Offshore Oil and Gas Operations in the Arctic - How can the European Union have an Impact?
			Nengye Liu / Elizabeth Kirk (University of Dundee, UK)

I. FOSSIL FUELS AND OIL PEAK			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room 202	I.C. Fossil fuels and oil peak. Local governance of hydraulic fracturing
			Chair: Heather McLeod-Kilmurray (University of Ottawa, Canada)
			Comparison Between New York and Pennsylvania Regulation
			Leroy Paddock (George Washington University, USA)
			How resistance to fracking produces local laws : the example of south of France.
			Laurent Vassallo (University of Montpellier)
			Fracking and the economic and environmental stress in Spain: Brief comparative of recent prohibitive regional laws and its impact
			Thays Ricarte / Laura Picó (CEDAT-Universitat Rovira i Virgili, Spain)
			Las claves jurídicas del debate sobre el fracking
			Agustín García Ureta (Universidad del País Vasco, Spain) / René Javier Santamaría Arinas (Universidad de la Rioja, Spain)

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room 425	II.D. Right to Energy and Human Rights
			Chair: Michael Faure (Maastricht University; Erasmus University Rotterdam, Netherlands)
			Deriving a right to energy as AU human right from Articles 22 and 24 of the African Charter on Human and People's Rights, 1986
			Michelle Barnard (North West University, South Africa)
			Human Rights versus Human Needs: The Significance of Couching Universal Access to Electricity in the Language of Rights
			Manuel Peter S. Solis (The University of Adelaide, Australia)
			A general comment on the right of access to modern energy services
			Thoko Kaime (University of Leicester, UK) / Robert L. Glicksman (The George Washington University Law School, USA)
			El derecho de acceso a la energía
			Hubert Delzangles (Sciences-Po Bordeaux; CRIDEAU, France) / Christophe Krolik (Université de Limoges, France)
Towards a Right to 'Clean Energy' under International Law?			
Ricardo Pereira (University of Westminster, UK)			



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III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room 424	III.D. Climate Change. Adaptation Strategies (II)
			Chair: David Hodas (Widener University, USA)
			Environmental Law System in Indonesia to adapt climate change impact for sustainable development: "Opportunities and challenges"
			Maret Priyanta (Padjadjaran University Bandung Indonesia)
			Human - Nature. Customary Law, Climate change and the EcoCycle - a Vanuatu case study
			Kirsten Davies (Macquarie University, Australia)
			Climate change and Agriculture in South Africa
			Michael Kidd (University of KwaZulu-Natal, South Africa)
			Legal Obstacles to Subnational Efforts to Combat Climate Change: The Case of the United States
			John B. Gustafson (University of Maryland Francis King Carey School of Law, USA)
			The Missing Link in the Climate and Energy Policies: Perspectives from the Climate-challenged Philippines
Gloria Estenzo Ramos (University of Cebu College of Law, Philippines)			

IV: ENERGY, SOCIAL AND ENVIRONMENTAL IMPACTS AND LITIGATION			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room 201	IV.D. National Litigation (I)
			Chair: Ed Couzens (University of KwaZulu-Natal, South Africa)
			Australian impact litigation against booming fossil fuel exports
			Sean Ryan (Environmental Defenders Office; Centre for Environmental Law)
			Los conflictos ambientales energéticos en la provincia de Tarragona
			Joan Pons Solé (INSTA-Serveis Jurídics Ambientals, Spain)
			Mining or Preserving: Large-scale Energy Projects and Heritage in the Asia Pacific
			Stefan Gruber (Kyoto University, Japan)
			Nuclear Waste Politics: Environmental Justice and Legal Sovereignty in Tribal America
			Annie Shapiro (University of Maryland Francis King Carey School of Law, USA)
			Energía, justicia ambiental y jurisdicción internacional: La MC 382/10 de la CIDH y sus implicaciones en Brasil
Rafael Oliveira do Prado (Latin American Society of International Law SLADI-LASIL, Brazilian Branch)			

VIII. RENEWABLE ENERGY SOURCES			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room 522	VIII.A. Renewable Energy. Regulating Renewable Energy
			Chair: Lye Lin-Heng (APCEL, National University of Singapore)
			Marine Renewable Energy Sources and Environmental Protection under the Marine Strategy Framework Directive
			Carlos Soria Rodríguez (Universiteit Brussel. Institute for European Studies-Vrije, Belgium)
			Innovative Financing of Renewable Energy
			Richard Ottinger (Pace Law School)/ John Bowie (Pace Law School: Pace Energy and Climate Center, USA)
			The Life of a Directive: A Lifecycle Sustainability Assessment of the 2009 EU Renewable Energy Directive and its Framework
			Pierre Cloutier de Repentigny (University of British Columbia, Canada)
			Stimulating the authorisation of renewable energy projects
			Kars de Graaf / Hanna Tolsma (University of Groningen, Netherlands)

IX - WATER AND ENERGY			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room 523	IX.B. Water and Energy. Integrating Water and Energy Policies
			Chair: Elizabeth Kirk (University of Dundee, UK)
			Issues in enforcing the water trigger under the EPBC Act-a prospective review
			Jennifer McKay (Centre for Comparative water policies and Laws. UniSA, Australia)
			Law and Policy Insights from Water Productivity Studies
			Laurel Besco (University of Ottawa, Canada)
			Collaborative Governance and the Energy-Water Nexus
Cameron Holley (University of New South Wales, Australia)			

XI. ENERGY TRANSITION: NEW MODELS OF ENERGY PRODUCTION AND CONSUMPTION			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room 516	XI.A. Energy Transition. Understangind the Energy Transition
			Chair: Jan Jans (University of Groningen, Netherlands)
			Germany's Energiewende: What can environmental law scholarship learn from it?
			Klaus Bosselmann (University of Auckland, New Zealand)
			Which governance for an energy transition? A comparative legal analysis between France and Germany. Energy transition: New models of energy production and consumption
			Anaïs Guerry (Sciences Po Law School in Paris, France)
			A policy framework for sustainable energy systems with variable geometry: the challenge of governance
			Karen Bubna-Litic (University of South Australia) / Endrius Cocciolo (CEDAT-URV, Spain) / Steve Weissman (University of California at Berkeley, USA)
			Access, Sustainability and Efficiency: Conceptualizing Energy Governance Options for Kenya
			Robert Kibugi (Law Centre for Advanced Studies in Environmental Law; University of Nairobi, Kenya)

XIV. WASTE AND ENERGY SOURCES			
Breakout Session 4	Thursday 3 11:30 am/1:00 pm	Room Sala de Graus	XIV.A. Waste and Energy Sources
			Chair: Aitana De la Varga Pastor (CEDAT-Universitat Rovira i Virgili, Spain)
			Energy production from landfill biogas: an alternative to mitigate energy and waste crises
			Kamila Guimarães Moraes / Flávia Franca Dinnebier (Universidade Federal de Santa Catarina, Brasil)
			Rx H2O: Global Response to the Emerging Problem of Pharmaceuticals in Drinking Water
			Christine Wang (University of Maryland Francis King Carey School of Law, USA)
			Turning Urban Sewage Into Renewable Energy
Melissa K. Scanlan (Vermont Law School, USA)			

I. FOSSIL FUELS AND OIL PEAK			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room 424	I.D. Fossil fuels and oil peak. Water resources, property rights and hydraulic fracturing
			Chair: Tracy-Lynn Humby (University of the Witwatersrand, South Africa)
			Regulating the UK's 'shale gas revolution'
			Elen Stokes (Cardiff Law School, UK)
			Fracking in Australia – The Future in South Australia?
			Karen Bubna-Litic (University of South Australia, Australia)
			Sustainable development as a normative framework for guiding the development of laws and policies needed for shale gas
			John Dernbach (Widener University, USA)
			Learning from History While Planning for the Future: Maximizing Economic Opportunity, Environmental Protection, and Social Progress in Hydraulic Fracturing
			Joshua Fershee (West Virginia University College of Law)

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room 202	II.E. Energy and Right to Environment
			Chair: Judith Gifreu (Universitat Autònoma de Barcelona / CEDAT)
			Acerca de la necesidad de un régimen internacional del Derecho humano al medio ambiente
			Juliana Gerent / Eliane Octavio Martins (Universidade Católica de Santos, Brasil)
			News perspectives on energy from the human right to environment
			Alexandre Peñalver i Cabré (Universitat de Barcelona, Spain)
			Justicia ambiental y distribución de energía eléctrica. Principio de precaución y consumo sostenible en la sociedad del riesgo: el caso referencia de Brasil
			Gabriela Fauth (URV; LADU) /Rosangela Lunardelli C. (UFRJ, Brasil) / Elza A. Pereira C. B. (USP, Brasil)
			La gobernanza energética y la sostenibilidad: el autoconsumo en España
			Mercedes Ortiz García (Universidad de Alicante, Spain)
			El acceso y la disponibilidad de energía como elementos clave para la efectividad del derecho a una vivienda adecuada: medidas de fomento de la rehabilitación de viviendas y del autoconsumo energético
			Ángeles Galiana (CEDAT-Universitat Rovira i Virgili, Spain)
			Análisis socio-jurídico de la "pobreza energética"
			Mario Ruiz (CEDAT-Universitat Rovira i Virgili, Spain)



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III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room 425	III.E. Developing Countries Facing Climate Change
			Chair: Gloria Estenzo Ramos (University of Cebu College of Law, Philippines)
			The Access to Clean Energy We Want: Opportunities and Challenges of Developing Countries in the 2015 Climate Agreement
			Andri Akbar Marthen (Pace University, USA)
			Shaping the legal form of the Durban platform agreement: an equitable outcome for small island developing States
			Melissa Low Yu Xing (National University of Singapore: Energy Studies Institute)
			Riesgos asociados con los proyectos de mitigación del cambio climático: el caso de los proyectos hidroeléctricos en el MDL
Paola Villavicencio Calzadilla (CEDAT-Universitat Rovira i Virgili, Spain)			

III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room 201	III.H. Climate Change and the Forced Movement of People. Challenges for an International Perspective
			Chair: Susana Borràs Pentinat (CEDAT-Universitat Rovira i Virgili, Spain)
			El proyecto de Convenio sobre el Estatuto internacional de los desplazados ambientales: evaluación de los efectos jurídicos de su adopción en siete países
			Fernanda de Salles Cavedon Capdeville / Michel Prieur (CIDCE - Université de Limoges)
			Revisiting Planned Relocation as a Climate Change Adaptation Strategy: the Added Value of a Human Rights-Based Approach
			Mariya Gromilova (Tilburg University, Netherlands)
			Climate Change: Human Rights in the Times of Climate Displacement
			Shakeel Kazmi (New York University Abu Dhabi)
			Cambio climático y desplazamiento ambiental: elementos de un plan de compensación de daños causados por el cambio climático en sociedades tradicionales
			Gregorio Mesa Cuadros (Universidad Nacional de Colombia. Grupo de Investigación en Derechos Colectivos y Ambientales, Colombia)
Legal Issues of Climate Change-Induced Migrants in China			
Haifeng Deng (Tsinghua University, China)			

IV: ENERGY, SOCIAL AND ENVIRONMENTAL IMPACTS AND LITIGATION			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room Sala de Graus	IV.E. National Litigation (II)
			Chair: Kurt Deketelaere (University of Leuven; University of Malta; University of Dundee)
			Sharing the Hooch: Why the Supreme Court Should Have No Place in the Chattahoochee River Dispute
			David N. Cassuto (Pace Law School, USA)
			Unconventional natural gas in the courts: An overview
			Brian J Preston SC (Land and Environment Court of New South Wales, Australia)
			Renewable Energy in Court
			Nicola Pain (Land and Environment Court of New South Wales, Australia)
			Environmental Justice and big hydroelectric projects: Brazilian litigation on indigenous rights
			Ana Maria de O. Nusdeo / Caroline Medeiros Rocha (Universidade de São Paulo, Brasil)
			El conflicto entre el acceso a la Justicia y las leyes singulares en materia de agua y energía
			Blanca Soro Mateo / Santiago Álvarez / Eduardo Salazar Ortuño / Elisa Pérez de los Cobos (Universidad de Murcia, Spain)

VIII. RENEWABLE ENERGY SOURCES			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room 522	VIII.B Renewable Energy. A Comparative View on Renewable Energy (I)
			Chair: Zen Makuch (Imperial College London, UK)
			From the mountains to the sea: New Zealand perspectives on renewable energy
			Trevor Daya-Winterbottom (University of Waikato, New Zealand)
			Need for Renewable Energy Electricity Law and policy Reform in Palestine: Towards a Sustainable Energy in Future
			Ibrahim Marie (Queensland University of Technology, Australia)
			The emergence of a new model of solar energy production and consumption in Brazil
			Carolina Dutra (Mackenzie Presbyterian University; Catholic University of Santos. Monte Serrat University Center) / Solange Teles da Silva (MPU; CNPq) / Maurício Duarte dos Santos (CUS; Metropolitan University of Santos and MSUC) Brasil
			Renewable Energy Projects versus Biodiversity Conservation: Attempting a Balance through Legislative Imperatives
			Ngozi F. Stewart (University of Benin)
			Regulation in the sphere of renewable energy sources in Russian Federation: problems and perspectives
			Ekaterina A. Belokrylova (Udmurt State University: Comparative Env. Law and Policy Centre, Russia)



IX - WATER AND ENERGY			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room 523	IX.C. Water and Energy. Hydropower, Impacts and Sustainability
			Chair: David L. VanderZwaag (Dalhousie University, Canada)
			Environmental Restoration and Compensation Following Hydro-electric Power Development: the Experience of Northwestern Ontario, Canada
			Jamie Benidickson (University of Ottawa, Canada)
			Improving Access of Indigenous Peoples to Fiscal Benefits from Energy-based Sources for Watershed Environmental Protection
			Rose-Liza Eisma Osorio (University of Cebu, Philippines)
			Hydroelectricity and Control of Water: Where Property, Indigenous and Environmental Rights Collide
Bradford Morse (University of Waikato, New Zealand)			

XI. ENERGY TRANSITION: NEW MODELS OF ENERGY PRODUCTION AND CONSUMPTION			
Breakout Session 5	Thursday 3 2:00 pm/3:30 pm	Room 516	XI.B. Energy Transition. European Energy Transition
			Chair: Moritz Reese (Helmholtz Centre for Environmental Law, Germany)
			EU climate & energy law – current developments and prospects
			Simon Marr (German Environmental Ministry)
			Market integration and External Energy policy undermining the EU Emissions Trading System: evidence of the neglected policy conflict regarding electricity leakage
			Stefan E. Weishaar (University of Groningen: Groningen Centre of Energy Law) / Sami Madani (The Advisory House)
			Promoting renewables under Common Market Conditions
			Hans Vedder (Centre of Energy Law) / Lorenzo Squintani (University of Groningen, Netherlands)
			Do we need sustainable energy supply planning in Europe and its Member States?
Wolfgang Köck (Helmholtz Centre for Environmental Law, Germany)			

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room 425	II.F. The Governance of the Energy Sector
			Chair: Karen Bubna-Litic (University of South Australia, Australia)
			The development and problems of China's energy policy and law over the past ten years
			Wang Xi (Shanghai Jiao Tong University, China) / Li Wei (Henan Engineering College, China)
			Transnational Energy Law and Policy: The Role of Local Government through the Lens of "Subsidiarity"
			Anel du Plessis (North-West University, South Africa)
			Enabling the Energy Citizen: EU Climate & Energy Governance for 2030
			Joshua Roberts (ClientEarth)
			La evaluación de impacto ambiental y la industria energética
Aitana De la Varga Pastor (CEDAT-Universitat Rovira i Virgili, Spain)			

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room 424	II.H. Energy Governance, Sustainability and Environmental Law in Developing Countries (I)
			Chair: Wang Xi (Shanghai Jiao Tong University, China)
			Sustainable energy for sustainable development: Malaysian strategies on renewable and alternative energy sources
			Abdul Haseeb Ansari (Ahmad Ibrahim Kulliyah of Law at International Islamic University Malaysia)
			The Right to Solar Energy in Burkina Faso: A luxury or a Necessity?
			Habib Ahmed Djiga (Université Ouaga 2, Burkina Faso)
			Strengthening Legal and Policy Frameworks for Energy in Africa: Lessons Learned from Kenya
			Caroline Haywood (International Development Law Organization) / Robert Kibugi (Law Centre for Advanced Studies in Environmental Law; University of Nairobi, Kenya)
			Indonesia's Energy Security Policy for the Prosperity of the People
Ida Nurlinda (Universitas Padjadjaran Bandung, Indonesia)			



III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room 202	III.F. Issues of Public Participation
			Chair: Jordi Jaria i Manzano (CEDAT-Universitat Rovira i Virgili, Spain)
			The UNFCCC requirements for access to climate information and public participation in climate change decision-making
			Sandra Nóbrega (Maastricht University, Netherlands)
			Integrating Public Participation into China's Climate Change Mitigation: towards An Ecosystem Approach View
			Huanlin Lang (University of Groningen, Netherlands)
			El cambio climático: un nuevo reto para la protección de los pueblos indígenas
			Irene Claro Quintáns (Universidad Pontificia Comillas, Spain)
			A report from the front lines: The Michael Mann v. National Review Online lawsuit and the future of communicating climate change risk
			William Piermattei (University of Maryland Carey School of Law, USA)
			"2030 EU climate policy: Climate Act for Europe. Civil society's proposal"
			Robert Rybsky (ClientEarth)

III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room 522	III.I. Climate Change and Human Rights
			Chair: Robert Percival (University of Maryland, USA)
			Restraining Carbon Exploitation "Rights" to Achieve a Cumulative Global Carbon Budget Cap: New Justification and Mechanisms Arising from State Obligations to Prevent Environmental Harm that Interferes with the Enjoyment of Human Rights
			David Estrin (IBA; University of Ottawa; Osgoode Hall Law School, York University, Canada)
			Climate change and human rights claims
			Veronica de la Rosa Jaimes (University of Calgary, Canada)
			Reconstructing Environmental Right in the Age of Climate Change
			Yao-Ming Hsu (National Cheng-Chi University, Taiwan)
			The Overlooked Dimensions of Climate Change
			Linda A. Malone (Marshall-Wythe Foundation Professor of Law; William and Mary Law School, USA)

VIII. RENEWABLE ENERGY SOURCES			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room 202	VIII.C Renewable Energy. Regulatory Issues on Renewable Energy and Sustainability
			Chair: Wolfgang Köck (Helmholtz Centre for Environmental Law, Germany)
			Implantation of Offshore Wind-Farms and the framework of the Integrated Coastal Zone Management
			F. Javier Sanz Larruga (Universidad de A Coruña, Spain)
			Regulatory instability of renewable energy in Spain
			Francisco Delgado Piqueras / Irene Ruiz Olmo ((Universidad de Castilla-La Mancha, Spain)
			The Birds and the Bats: Using Adaptive Management to Find the Balance of Public Interest in Wind Farm Development
			Sophie Riley (University of Technology, Sidney, Australia)
			Environmental Flows in Transboundary Waters – Ecologically Sustainable Energy Delivery
			Josefin Gooch (Lund University, Sweden)
			Sustainable Energy Law and Zero-Emission Vehicles: The Solar and Wind Energy Storage Solution
			David Hodas (Widener University, USA)

IX - WATER AND ENERGY			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room 523	IX.D. Water and Energy. Marine Environment, Renewable Energy and Governance
			Chair: Bradford Morse (University of Waikato, New Zealand)
			Building the blue economy: Renewable energy, the oceans and marine spatial planning
			Michaela Young (University of Cape Town. Institute of Marine & Environmental Law, South Africa)
			Marine renewable energies: opportunities, law and management
			Montserrat Abad Castelos (Universidad Carlos III de Madrid, Spain)
			Renewable Ocean Energy and the International Law and Policy Seascape: Global Currents, Regional Surges
			David L. VanderZwaag (Dalhousie University, Canada)
			A Critical Evaluation of Marine Spatial Planning: An instrument for sustainable rule of law or something else?
			Niko Soininen (University of Eastern Finland, Finland)
			Marine Governance in an Industrialised Ocean: a case study of the emerging marine renewable energy industry
			Glen Wright (Australian National University, Australia)



XI. ENERGY TRANSITION: NEW MODELS OF ENERGY PRODUCTION AND CONSUMPTION			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room Sala de Graus	XI.C. Energy Transition. Sustainable Energy Production, Consumption and Allocation
			Chair: Koh Kheng Lian
			Energy transition: new models of energy production and consumption
			Romain Mauger (Université de Montpellier, France)
			Prospect of transition into renewable energy in developing countries
			Ana Maria de Oliveira Nusdeo / Lívia Regina Batista (Universidade de São Paulo, Brasil)
			Legal Framework for an Energy Turn - Juridical Requirements and Political Decisions
			Ferdinand Kerschner (JKU Linz. Institute for Environmental Law, Austria)
			Paraguay y la hidroenergía: Quo vadis? Un análisis de las perspectivas actuales frente a los nuevos paradigmas de la sustentabilidad
			Cecilio Arnaldo Rivas Ayala / Vladimir Passos de Freitas (Pontificia Universidade Católica do Paraná, Brasil)
Green Energy Technologies and Role of Intellectual Property: Can TRIPS and UNFCCC facilitate transfer of Green Energy Technologies to the LDCs?			
M. Monirul Azam (Stockholm University; University of Chittagong, Bangla Desh)			

XII. ENVIRONMENTAL DAMAGES AND LIABILITY			
Breakout Session 6	Friday 4 11:30 am/1:00 pm	Room 424	XII.A. Nuclear Damages and Liability
			Chair: Teresa Fajardo (University of Granada, Spain / CEDAT)
			Nuclear Third Party Liability Regimes and the Goal of Victims' Compensation: the cases of Canada and Japan
			Astrid Kalkbrenner (University of Calgary: Canadian Institute of Resources Law, Canada)
			The Liability of Environmental Damage from Nuclear Activity in Indonesia
			Yanti Fristikawati (Atma Jaya Catholic University of Indonesia)
			Compensation for Nuclear Damage: A Comparison among the International Regime, Japan and China
			Liu Jing (Erasmus University Rotterdam, Netherlands) / Michael Faure (Maastricht University; Erasmus University Rotterdam, Netherlands)
			Civil Liability for Nuclear Damages in Turkey
			Başak Başoğlu (Istanbul Kemerburgaz University, Turkey)

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room 425	II.G. Energy and Food Production
			Chair: Paul Martin (Australian Centre for Agriculture and Law; University of New England, Australia)
			The energetic balance in food production
			Cristiane Derani (Universidade Federal de Santa Catarina, Brasil)
			Política energética, mitigación del cambio climático y política alimentaria: posible coordinación de esfuerzos
			Jeronimo Basilio Sao Mateus (CEDAT-Universitat Rovira i Virgili, Spain)
			Biofuels, GMOs and Food Security: The South African Legal and Policy Framework
			Odile Juliette Lim Tung (University of Mauritius and North-West University University, South Africa)
			Soberanía alimentaria y sostenibilidad energética
			Pablo Ramírez Vélez (CEDAT-Universitat Rovira i Virgili, Spain)
Accountability and Transparency in Rulemaking Procedure: Food Safety Regulations after Fukushima			
Hitoshi Ushijima (Chuo University, Japan)			

II. UNIVERSAL ENERGY ACCESS, ENVIRONMENTAL GOVERNANCE, DEMOCRATIC PARTICIPATION AND ENERGY MODEL			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room 424	II. I. Energy Governance, Sustainability and Environmental Law in Developing Countries (II)
			Chair: Sophie Riley (University of Technology, Sidney, Australia)
			Law and policy on renewable energy sources in Nigeria: a critical appraisal
			Shehu Usman Yamusa II (Nasarawa State University Keffi)/ Abdul Haseeb Ansari ((Ahmad Ibrahim Kulliyah of Law at International Islamic University Malaysia)
			Trade and the Global South Understanding the trade and environment nexus from a developing country perspective
			Shawkat Alam (Macquarie University. Center for Environmental Law, Australia)
			El dilema de la explotación de la energía geotérmica en parques nacionales en Costa Rica
			Rafael González Ballar (Universidad de Costa Rica; ILANUD)

III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room 522	III.G. Climate Change and Carbon Market
			Chair: David Grinlinton (University of Auckland, New Zealand)
			Options and obstacles for the inclusion of trade defence mechanisms in the Post-Kyoto Regime
			Miguel Ángel Elizalde Carranza (Universitat Pompeu Fabra, Spain)
			A UK Perspective on Social Impacts of Climate Change Law and Policy: the Contrasting Experience of Floods Insurance and Emissions Trading Regulation
			Mark Stallworthy (Swansea University, UK)
			Marked-based Measures for Reduction of GHG Emissions from International Shipping
			Saiful Karim (Queensland University of Technology, Australia)
			The Linking of Emissions Trading Schemes: Identifying Core Convergence Criteria
Gerard Kelly (University of Liverpool; University College London, UK)			

III. CLIMATE CHANGE: MITIGATION AND ADAPTATION POLICIES, INTERNATIONAL NEGOTIATIONS, SOCIAL IMPACTS, ENVIRONMENTALLY DISPLACED			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room 523	III.J. Climate Change and the Forced Movement of People. Challenges for Regional and National Perspectives
			Chair: Antonio Cardesa-Salzmann (CEDAT-Universitat Rovira i Virgili, Spain)
			Natural disasters, human security and climate induced migration: An international law assessment from an African perspective
			Oliver C. Ruppel (University of Stellenbosch, South Africa)
			Environmentally displaced persons and international law
			Winnie Khaemba (African Youth Initiative on Climate Change)
			Social impacts of Oil related pollution in Nigeria: What is the hope of the environmentally displaced persons?
			Eloamaka Carol Okonkwo (University of Strathclyde, UK)
			The contribution of Bangladesh to the definition of an international legal framework and specific policies for climate refugees
			Belen Olmos Giupponi (University of Stirling)
			El desplazamiento ambiental por efectos asociados al Cambio Climático: Elementos para la construcción de una política pública desde el enfoque de la justicia ambiental y los derechos humanos
Javier Gonzaga Valencia Hernández (Universidad de Caldas; Observatorio de Conflictos Ambientales, Colombia)			

VIII. RENEWABLE ENERGY SOURCES			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room 202	VIII.D. Renewable Energy. A Comparative View on Renewable Energy (II)
			Chair: José Juan González (Metropolitan Autonomous University, Mexico)
			El desarrollo de las energías renovables y su armonización con la legislación en el marco de la judicialización de los proyectos energéticos
			Pilar Moraga Sariago (Universidad de Chile; Centro de Derecho Ambiental, Chile)
			Las políticas ambientales en materia de energía renovables: una comparativa entre España y México
			Jaume De las Heras Seuma / Gisselle García Maning (CEDAT-Universitat Rovira i Virgili, Spain)
			Renewable Energy Sources in Ukraine : Problems and Perspectives of Development
			Svitlana Romanko (Prykarpatsky National University after V. Stefanyk, Ukraine)
			Legal and policy responses to renewable energy obstacles in South Africa
			Tumai Murombo (Mandela Institute; University of the Witwatersrand, South Africa)
			The advent of solar energy in Brazil and the promotion of sustainable development due to the limitations of the country's energy sector
Dayane de Oliveira Martins Bringel (UNDB) / Jéssica Silva de Jesus (UFMA) Brasil			

XII. ENVIRONMENTAL DAMAGES AND LIABILITY			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room Sala de Graus	XII.B. Environmental Damages and Liability
			Chair: David N. Cassuto (Pace Law School, USA)
			Protecting Taxpayers and the Environment Through reform of Canada's Offshore Liability Regime
			William Amos / Ian Miron (uOttawa-Ecojustice Environmental Law Clinic, Canada)
			Mass damage cases in the energy industry
			Michael Faure (Maastricht University; Erasmus University Rotterdam, Netherlands) / Franziska Weber (University of Hamburg, Germany)
			La dimensión temporal, espacial y ética del daño ambiental derivado de la utilización de fuentes e energía no renovables. Su inacabado tratamiento jurídico
			Blanca Soro Mateo / Santiago Álvarez / Eduardo Salazar Ortuño / Elisa Pérez de los Cobos (Universidad de Murcia, Spain)
			The Regulatory Potential of Financial Security to Reduce Environmental Risk
			Colin Peter Mackie (University of Aberdeen, UK)
			La gestión de residuos en Cataluña en el horizonte 2020
Josep Maria Tost i Borràs (Agència de Residus de Catalunya / Catalan Waste Agency, Spain)			



XIII. FINANCIAL NEEDS OF ENERGY SUPPLY			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room 202	XIII.A. Financial Needs of Energy Supply and Energy Taxation
			Chair: Amanda Kennedy (University of New England, Australia)
			La gestión y tributación del proyectos ambientales: el caso del proyecto ambiental Yasuní-ITT en Ecuador (Fideicomiso Yasuní)
			Milenka Villca Pozo (CEDAT-Universitat Rovira i Virgili, Spain)
			The extrafiscal tribute and the responsibility of vehicular society to protect the environment
			Priscila Silva de Souza (Universidade do Estado do Amazonas) / Cecilio Arnaldo Rivas Ayala (Pontifícia Universidade Católica do Paraná) Brasil
			Las plantas hidroeléctricas y el federalismo fiscal
			Priscila Silva Lopes / Lise-Tupiassu Merlin (Centro Universitário do Pará, Brasil)
			Promises and Undertaking": Challenges of benefit sharing in the Kutubu oil and gas development licence area. (Papua New Guinea)
			Hitelai Dorothy Polume-Kiele (University of New England, USA)
			Promoting Rural Electrification through the Deployment of Renewable Microgrids: How to Create an Enabling Legal Framework for Investment
			Jessica Wentz / Chiara Pappalardo / LeRoy Paddock (The George Washington University Law School, USA)

XV. INTERNATIONAL SECURITY AND GEOPOLITICS OF ENERGY SUPPLY			
Breakout Session 7	Friday 4 2:00 pm/3:30 pm	Room 516	XV.A. International Security and Geopolitics of Energy Supply
			Chair: Marjan Peeters (Maastricht University, Netherlands)
			España y sus aliados ante el desafío de la Seguridad Energética
			Bénédicte Real (Centro Universitario de la Defensa, Spain)
			Quest for International Legal Regulation of Transboundary Energy Pipelines: Some Reflections
			Balraj K Sidhu (Centre for Advanced Study on Courts & Tribunals, India)
			Offshore activities in the Black Sea and Mediterranean: Energy security or environmental insecurity?
			Nilufer Oral (Istanbul Bili University, Turkey)
			Trans-European Energy Networks: Which role for environmental protection?
			Christopher Frey (University of Dresden, Germany)





Side events



GLOBAL NETWORK FOR THE STUDY OF HUMAN RIGHTS AND THE ENVIRONMENT SYMPOSIUM

PERSON IN CHARGE/COORDINATOR: ANNA GREAR (Cardiff University, UK) – LOUIS KOTZÉ (North West University, South Africa)

TITLE: GLOBAL NETWORK FOR THE STUDY OF HUMAN RIGHTS AND THE ENVIRONMENT SYMPOSIUM

DATE: Monday June 30th & Tuesday July 1st

PLACE: Room A309 (Building A)

TIME: 2.00pm – 7.00pm.

AIM: GNHRE Symposia are always intellectually dynamic, highly interactive and highly enjoyable. This year's theme is 'Reimagining 'humanity' in the nexus between human rights and the environment'. This theme invites engagement with the central question of 'who we think we are' as human beings and 'where we think we are' in terms of our understanding of the world we inhabit and which inhabits us. How might the relationship between human rights and the environment be reconfigured by renewed understandings and engagements with the question of who 'we' are? How do human and environmental rights construct and shape a vision of who 'we' are and in what kind of world? How does environmental law construct 'nature'? How do legal relations portray, fix or shape the relationship between 'humanity' and 'nature'? What laws, policies and practices would best embody new ways of being and seeing adequate to an energy-intensive world in climate crisis? The list of such questions is open-ended – and you are invited to explore the central Symposium theme as richly as you wish. There are four thematic areas in which abstracts are invited: Philosophical Re-Investigations; Reconfiguring the Legal; Activism and Praxis; Multi-level Reformulation. Simply submit an abstract – and indicate which thematic area you prefer to be 'located' in. All abstract very welcome, but places are limited – so act fast! You won't regret it!



IMPORTANCE OF ETHICS FOR INTERNATIONAL ENVIRONMENTAL POLICY AND LAW

PERSON IN CHARGE/COORDINATOR: DONALD A. BROWN (Widener University, US) and KLAUS BOSSELMANN (University of Auckland, New Zealand)

TITLE: ENVIRONMENTAL ETHICS IN ACTION

DATE: Monday June 30th

PLACE: Room A201 (Building A)

TIME: 2.00pm - 5.30pm

AIM: To explore and discuss the importance of ethics for international policy, law and governance. Two areas of practical application will be used to focus discussion; the Earth Charter and climate change ethics.

ESSENTIAL CONTENT: This side event will begin with an overview of the history and development of global ethics and international environmental law. The Earth Charter will be discussed and its role in contemporary issues will then be critically examined. The side event will then focus on the specific challenge of climate change. Climate change ethics will be discussed with an emphasis on how ethical issues can be made more explicit ensuring that they become integral to climate change responses.

Participants will be introduced to an exciting new research project that seeks to develop information and analysis that could be helpful in ensuring that nations take equity and justice seriously when making national commitments on climate change and when negotiating their international obligations. Parallels will be drawn with national performance monitoring in the field on international human rights.

All conference delegates are warmly invited to this side event. It will be of particular interest to delegates interested in participating in an international legal research collaboration.



Schedule for Side Event: Environmental Ethics in Action

Monday 30 June, 2-5.30pm

Room A201 (Building A)

Contacts: Donald A Brown: dabrown57@gmail.com and Klaus Bosselmann: k.bosselmann@auckland.ac.nz

Room 201

14.00- 14.05	Introduction/Welcome
14.05-14.30	<i>Overview of the Importance of Ethics for environmental law and policy, from historical and contemporary perspectives.</i> <i>Speakers:</i> <i>Professor Klaus Bosselmann (University of Auckland);</i> <i>Dr Peter Burdon (University of Adelaide); and</i> <i>Donald A. Brown (Widener University).</i>
14.30-15.15	<i>Ethics Applied # 1: The Earth Charter and its application to current issues.</i> <i>Speakers:</i> <i>Professor Klaus Bosselmann &</i> <i>Dr Peter Burdon</i>
15.15-15.30	Discussion: Not what we say, but what we do!
15.30-15.45	Health Break
15.45-16. 15	<i>Ethics Applied # 2: Why ethics and equity are indispensable to acceptable national climate commitments and how to improve national responses on these matters in policy formation.</i> <i>Speaker: Donald A. Brown, Author of Climate Change Ethics, Navigating the Perfect Moral Storm (2013)</i>
16.15-16.30	The example of the United States
16.30-16.45	The example of New Zealand
16.45-17.10	Introduction to research project: Climate Change Ethics: An Analysis of National Responses. Overview of objectives and method
17.10-17.30	Discussion of project including research template and guidelines for country reports. Next steps for participants.
17.30	Finish



WINE, LAW AND THE ENVIRONMENT

PERSON IN CHARGE/COORDINATOR: **Maria Marquès** (Universitat Rovira i Virgili, Spain) & **Paul Martin** (University of New England, Australia)

EVENT TITLE: Wine, Law and the Environment

DATE*: June 30, 17h

PLACE*: Room 202

DURATION SUGGESTED (3h max): 1h 30m

AIM: This side event aims to inform about the relationship between wine and the environment and provide the opportunity to get a perspective on how environmental teachers approach the world of wine.

ESSENTIAL CONTENT:

Speech 1: Prof. Dr. Fernando Zamora

Head of the Experimental Cellar, Enology Faculty, Universitat Rovira i Virgili, Spain

Member of the Committee on Enology, International Organisation of Vine and Wine (IOV)

How will Climate Change impact on vitiviniculture?

Climate change is nowadays an irrefutable reality which is affecting agriculture and especially viticulture. Springs rainless and summers extremely warm are increasingly frequent. Under these weather conditions, the grape flesh ripe faster reaching high sugar concentrations, low acidity and a high pH in less time. The period between veraison and industrial maturity is decreasing, making it difficult that grapes reach the correct aromatic and fenolic maturity. That is the main reason because wines, especially red wines, have increased continuously their ethanol content during last years. Face to this challenge, winemakers and grapegrowers need to develop new strategies to mitigate these problems. The present speech will develop all these aspects.

Speech 2: Prof. Dr. Paul Martin

Director, Australian Centre for Agriculture and Law

University of New England, Australia

Lawyers like to philosophise, and environmental lawyers often philosophise about the environment. Many environmental lawyers like to drink wine, and to talk about wine. Most environmental lawyers think that they are ethical. It is from these foundations that this light hearted talk about wine, the environment, law (and a touch of philosophy) will proceed to explore some (hopefully) interesting and generally unknown facts and fictions.



PRESENTATION OF THE EUROPEAN ENVIRONMENTAL LAW FORUM (EELF)

PERSON IN CHARGE/COORDINATOR: MORITZ REESE (Helmholtz-Zentrum für Umweltforschung, Leipzig, Germany)

TITLE: PRESENTATION OF THE EUROPEAN ENVIRONMENTAL LAW FORUM (EELF)

DATE: Tuesday, July 1st

PLACE: Room A201 (Building A)

Time: 2.00pm – 2.30pm

AIM: Present the European Environmental Law Forum as a partner Network of IUCNAEL

ESSENTIAL CONTENT: Introduction of aims, activities, services and opportunities of the EELF network



PRESENTATION OF EU RESEARCH OPPORTUNITIES

PERSON IN CHARGE/COORDINATOR: Research Management Service, Universitat Rovira I Virgili

TITLE: PRESENTATION OF EU RESEARCH OPPORTUNITIES

DATE: Tuesday, 1 July

PLACE: Room A201 (Building A)

Time: 2.30pm – 3.30pm

AIM:

ESSENTIAL CONTENT:

- EU Opportunities for International Researchers to come to Europe/Spain/Tarragona: the Marie Slodowska Curie Actions and the ERC grants
- EU Opportunities for Environmental and Energy Law Research



ENHANCING COOPERATION BETWEEN ENVIRONMENTAL LAW ELECTRONIC JOURNALS: A LONG WAY TO GO

PERSON IN CHARGE/COORDINATOR: MAR CAMPINS ERITJA (Universitat de Barcelona / (CEDAT) Universitat Rovira I Virgili)

TITLE: ENHANCING COOPERATION BETWEEN ENVIRONMENTAL LAW ELECTRONIC JOURNALS: A LONG WAY TO GO

DATE: 1 July

PLACE: Room A201 (Building A)

TIME: 4.00pm – 6.30pm

AIM: The aim of this side event is to address cooperation amongst environmental law electronic journals.

ESSENTIAL CONTENT: The question to answer is how organize environmental law e-journals' cooperation in a supportive way that will promote discussion on environmental legal issues and that will be of interest for researchers and academic authors? It is worth creating a network of environmental law e-journals? Some ideas to discuss are the following: Sharing some contents i.e. indexes, summaries and book reviews; publishing one special/integrative issue (or supplementary issue); publishing abridged versions or abstracts of outstanding articles; promoting best practices among researchers, authors, reviewers, and editors.



Key logistics and support information



KEY LOGISTICS AND SUPPORT INFORMATION

COLLOQUIUM VENUE	URV Campus Catalunya Avda. Catalunya, 35 Tarragona
COLLOQUIUM QUERIES	Registration Desk Building D Board Room (Sala de Juntes) Level 1 Plenary Sessions Building D Aula Magna Breakout Sessions Building A Levels 2, 4 & 5
INTERNET ACCESS	Acces info will be available during the Colloquium
HOTELS	Hotel Ciutat de Tarragona Hotel AC Tarragona Hotel SB Express Hotel Urbis Hotel Lauria Hotel Astari Hotel Plaça de la Font Sant Jordi University Residence
AREA CODE	Access/Count Code/Tgn /Local 6 digits 00 34 977 XXX XXX Acces and Country Code also apply when calling a cell phone number in Spain, which always start with 6 (ie, 00 34 6XX XXX XXX)
GENERAL AND ACADEMIC INFO	General Info www.iucnael2014.cat iucnael2014@urv.cat IUCN Academy Secretariat Winnie Carruth iucnael@uottawa.ca Colloquium Program and General Inquiries about the Colloquium Victor Merino victor.merino@urv.cat



KEY LOGISTICS AND SUPPORT INFORMATION

MEDICAL SERVICES	Medical Emergencies: 112 (free of charge) Hospital Services: - Hospital Universitari Joan XXIII Cr. Dr. Mallafré Guasch, 4 0034 977 295800 www.icscampdetarragona.cat - Hospital de Sant Pau i Santa Tecla: Rambla Vella, 14 0034 977 259900 Emergencies: 0034 977 9914 www.xarxatecla.cat
POLICE	Emergencies calls: 112 Local Police (Dial: 092) Av. Arquebisbe Pont i Gol, 6 Mossos d'Esquadra (Dial: 112) Dr. Mallafré, 7 Civil Guard (Dial: 062) C/ Maria Aurèlia Capmany, s/n
ACCOMMODATION & AIR TRANSFER BOOKINGS AND CHANGES	Accommodation & Booking Changes : Viatges Berga - eddy@viatgesberga.com Colloquium secretariat : IMC - inimed@inimed.com





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