

## 2018 IUCN Academy of Environmental Law Colloquium University of Strathclyde, Glasgow, Scotland, UK

### The Transformation of Environmental Law and Governance: Innovation, Risk and Resilience

4-6 July 2018

#IUCNAEL2018

[iucn2018-conf@strath.ac.uk](mailto:iucn2018-conf@strath.ac.uk)

### THURSDAY 5<sup>TH</sup> JULY PROGRAMME



#IUCNAEL2018

## Thursday 5 July 2018

08:00 – 09:00 **Registration** @ [Technology and Innovation Centre](#), University of Strathclyde, 99 George Street, Glasgow, G1 1RD.

### 09:00 – 10:45 **Parallel sessions**

- Oil and Gas
- Flooding, Innovative Technology and Investment
- Lost at Sea: New Challenges for Law and Governance
- Environmental Litigation: Risk, Tort, Technology and Science
- Innovation and Transformation in Environmental Law and Governance
- International Environmental Law: Fit for Purpose?
- Climate Change: Process, Planning and the Rule of Law
- Governing Climate Change Risk
- Climate Change Impacts and Adaptation
- Climate Change, Business and Human Rights
- *The International Governance of Traditional Knowledge associated with Genetic Resources: Rethinking Policies and Tools for Bridging Indigenous Rights with Intellectual Property Systems*

### **Oil and Gas**

**5/7/18 09.00/10.45 Venue: TIC Conference Room 6**

Chair: José Juan Marquez, Metropolitan Autonomous University, Mexico

Andri Wibisana; Savitri Nur Setyorini and; Angela Vania Rustandi, University of Indonesia, *Valuation of Natural Resource Damage (NRD) from Oil Pollution in Indonesia: Critical Comments of NRD Assessment in the Montara Case*

Eloamaka Carol Okonkwo, Strathclyde Centre for Environmental Law and Governance, *Appraising the Regulation of Gas Flaring in a Technological Evolving World as a way of Reducing Gas-Related Pollution in Nigeria*

Kyriaki Noussia, University of Exeter, UK, *Cyber-crime in the offshore oil and gas industry: insurance, environmental and sustainability perspectives*

Mar Campins Eritja, University of Barcelona, Spain, *From “Go beyond oil” to “Drill, baby, drill”: The unsteady US policy concerning Arctic oil and gas exploration and exploitation*

**Flooding, Innovative Technology and Investment**  
**5/7/18 09.00/10.45 Venue: TIC Conference Room 8**

Chair: William Piermattei, University of Maryland Carey School of Law, USA

Mitsuo Matsumoto, Osaka University, Japan, *Water Law Reform to Adapt to Climate Change: From Flood Prevention by man-made Structures towards Mitigation of Damages through Land Use Policies*

Philippa England, Griffith University, Australia, *Adaptive risk management or precaution resurgent? The treatment of flooding risks in Australian courts*

Catherine Tinker, Seton Hall University, New Jersey, USA, *Who's Counting? UN SDG Indicators, Big Data, and Citizen-Generated Data for Implementation of Policy and Law*

Yulia Levashova, Utrecht Centre for Water, Oceans and Sustainability Law, Utrecht University, Netherlands, *The privatisation of water services in international investment disputes*

**Lost at Sea: New Challenges for Law and Governance**  
**5/7/18 09.00/10.45 Venue: TIC Conference Room 3**

Chair: Gloria Estenzo Ramos, Oceana Philippines

Gabriela A. Oanta, Salvador de Madariaga University Institute for European Studies, University of A Coruña (Spain), *Access to Remedy in the European Union in Case of Breaches of Human Rights at Sea by Private Actors*

Prue Taylor, University of Auckland, New Zealand, *Oceans Governance and Marine Protected Areas: Turning the Tide*

Anastasia Telesetsky, University of Idaho, *Messages in Plastic Bottles? Reflections on International and Domestic Law and Policy Interventions to Manage Marine Plastics*

Renée Martin-Nagle, Strathclyde Centre for Environmental Law and Governance, *Governance of Offshore Freshwater Resources*

**Environmental Litigation: Risk, Tort, Technology and Science**  
**5/7/18 09.00/10.45 Venue: TIC Conference Room 1**

Chair: Caroline Foster, University of Auckland, New Zealand

Ceri Warnock, University of Otago, Dunedin, New Zealand, *Adjudicative innovation in risk and resilience*

Michael Hantke-Domas, Justice of the Third Environment Court of Chile, and Carlos G. Ellenberg Oyarce (in absentia), Attorney Advisor at the Third Environment Court of Chile, *Ecosystem services and the adjudication of environmental damage disputes: the birth of an environmental tort*

Sroyon Mukherjee, London School of Economics and Political Science, London, UK, *Judicial Review of Environmental Valuation: Challenging the Adequacy of US Regulatory Cost-Benefit Analysis*

Marie-Catherine Petersmann, European University Institute, Florence, Italy, *Conflict Adjudication or Expert Rule? Scientific Semantics of Legitimacy in Environmental Cases*

### **Innovation and Transformation in Environmental Law and Governance**

**5/7/18 09.00/10.45 Venue: Court Senate**

Chair: Bjørn-Oliver Magsig, University College Cork, Ireland

Rosalind Malcolm, University of Surrey, Guildford, UK, *Designing legal tools for the regulation of a circular economy*

Robert Fowler, University of South Australia, *New Principles for the Next Generation of Environmental Law*

Robert V. Percival, University of Maryland Carey School of Law, USA, *A History of Innovation in Global Environmental Law and Policy*

Grit Ludwig, Helmholtz Centre for Environmental Research, Leipzig, Germany, *The contribution of Law to Transformative Environmental Policy: The example of the Construction Sector*

### **International Environmental Law: Fit for Purpose?**

**5/7/18 09.00/10.45 Venue: TIC Conference Room 7**

Chair: Antonio Cardesa-Salzmann, Strathclyde Centre for Environmental Law and Governance

Kazuki Hagiwara, Fukuoka University, Fukuoka, Japan, *Are Shared Resources a State Good or a Global Public Good?*

Santiago Vallejo Galárraga, University of Szeged, Hungary, *Greening of International Adjudications*

Tseming Yang, Santa Clara University School of Law, California, USA, *The Emergence of the Environmental Impact Assessment Norm as a Global Environmental Law Principle*

Maria Antonia Tigre, Elisabeth Haub School of Law, Pace University, USA, *The Global Pact for the Environment as a Framework for International Law*

**Climate Change: Process, Planning and the Rule of Law**

**5/7/18 09.00/10.45 Venue: TIC Conference Room 2**

Chair: Denise Antolini, University of Hawaii, USA

Michelle Barnard, North-West University, South Africa, *Climate Change Litigation in South Africa: The Evolution of Environmental Impact Assessments*

Meinhard Doelle, Dalhousie University, Halifax, Canada, *Environmental Assessment as a Climate Mitigation Tool*

Naomi Luhde-Thompson, College of Arts and Law, Birmingham University, UK, *Death by a Thousand Cuts: Can Planning Law Tackle the Cumulative Carbon Emissions Impact of Individual Project Decisions Where New Energy Technology Is Involved?*

A.T. (Bert) Marseille, H.D. (Hanna) Tolsma, K.J. (Kars) de Graaf, University of Groningen, Netherlands, *The Impact of Supervision on Environmental Decision-making in the Netherlands*

**Governing Climate Change Risk**

**5/7/18 09.00/10.45 Venue: TIC Conference Room 4**

Chair: Svitlana Romanko, Vasyl Stefanyk Precarpathian National University, Ukraine

Sanne Akerboom, Utrecht University, Netherlands, *Accepted and Perceived Risks: Short Term Risks Arising in Climate Change Mitigation Techniques Versus Long Term Risks of Global Climate Change*

Ana Maria Nusdeo, University of São Paulo, Brazil, *The Paris Agreement and Risk Governance: The Role of Transparency and the Sustainable Development Mechanism*

Megan Bowman, Kings College London, UK, *Climate Finance Law: Risk, Resilience and Innovation*

Emily Webster, King's College London, UK, *Transnational Risk Governance and Climate Change*

## **Climate Change Impacts and Adaptation**

**5/7/18 09.00/10.45 Venue: TIC Conference Room 5**

Chair: Leonie Reins, Tilburg University, Netherlands

Michael Addaney, Wuhan University, China, *One Belt, One Road and the Law of Adaptation to Climate Change in Africa: Towards a Technology-based Approach to Adaptation*

John D. Echeverria, South Royalton, Vermont, USA, *Taking Sea Level Rise Seriously: Innovative Responses to Increasingly Dire Predictions of Sea Level Rise*

Melissa Ely Melo (in absentia), Vale do Itajaí University (UNIVALI), Brazil, and Kamila Pope, University of Santa Catarina, Brazil, *Payment for Environmental Services as an instrument to foster resilience and environmental justice in the context of climate changes in Santa Catarina State*

Mehdi Piri Damagh, University of Tehran, Iran, *Adaptation in the Paris climate change Agreement and its implication for water scarcity*

## **Climate Change, Business and Human Rights**

**5/7/18 09.00/10.45 Venue: TIC Lecture Theatre Level 1**

Chair: Maria Socorro Manguiat, UNEP

Kim Bouwer, Strathclyde Centre for Environmental Law and Governance, *Innovative Approaches to Benefit-Sharing: Its Use and Potential for Climate Finance*

Eugenia Recio, University of Eastern Finland, *The Role of Soft Law in Regulating the Protection of Vulnerable Forest-peoples From Innovative REDD+ Interventions*

Jaap Spier, University of Amsterdam, Netherlands and Stellenbosch University, South Africa, *Principles on Climate Obligations of Enterprises*

Sara L Seck, Schulich School of Law and Marine & Environmental Law Institute, Halifax, Nova Scotia, Canada, *Business Responsibilities for Human Rights and Climate Change: Innovating for Remedy and Resilience*

## **The International Governance of Traditional Knowledge associated with Genetic Resources: Rethinking Policies and Tools for Bridging Indigenous Rights with Intellectual Property Systems**

**5/7/18 09.00/10.45 Venue: Insights Institute, Collins Building**

(Session organized by Centre for International Governance Innovation (CIGI), Waterloo, Ontario, Canada)

Oluwatobiloba Moody, Centre for International Governance Innovation, Waterloo, Canada [Moderator], *An Overview of the International Framework and Current Debates Surrounding the Protection of Traditional Knowledge associated with Genetic Resources.*

James Hopkins, University of Arizona, USA, *Reconciling the Implementation of the Nagoya Protocol with Emerging Intellectual Property Norms for Traditional Knowledge: A North American Case Study*

Kathy Hodgson-Smith, Canadian Indigenous Lawyer, *Indigenous Peoples and a Vision for Bridging Indigenous Rights with Intellectual Property Systems in the Protection of Traditional Knowledge: Reflections from Canada.*

Olivier Rukundo, ABS Initiative, *An Overview of Best Practice Models, Policies and Tools for Reconciling Access and Benefit Sharing with Global Innovation Frameworks: Lessons from the Field.*

10:45 – 11:15 **Coffee break**

11:15 – 13:00 **Parallel sessions**

- Energy Innovation, Risk and Resilience
- Oceans, Energy and Climate Change
- Smart and Sustainable Cities
- Human Rights and the Environment
- Climate Conflict and Migration
- Climate Justice and Liability
- Climate Engineering, Negative Emissions, and Carbon Capture and Sequestration
- The Governance of Biodiversity in National and Regional Contexts
- Challenges in Biodiversity and Traditional Knowledge Governance
- *PP4SD - Public Participation for Sustainable Development*

### **Energy Innovation, Risk and Resilience**

**5/7/18 11.15/13.00 Venue: TIC Conference Room 6**

Chair: Aileen McHarg, Strathclyde Centre for Environmental Law and Governance

Verena Madner, Vienna University of Economics and Business, Austria, *Fostering Innovation and Learning in Energy Transitions – A Legal Perspective*

Albert Ruda, Universitat de Girona, Spain, *When the ground starts shaking: who bears the risks of hydraulic fracture?*

Topi Turunen, University of Eastern Finland, and, Kim Talus, Tulane University, New Orleans, LA, USA (in absentia), *Regulating Emerging Technologies – Gasification in Waste-to-Energy*

Seita Romppanen, University of Eastern Finland, *The Role of Law in Promoting Innovations and New Practices for Sustainable Bioeconomy*

### **Oceans, Energy and Climate Change**

**5/7/18 11.15/13.00 Venue: TIC Conference Room 1**

Chair: Alana Malinde S N Lancaster, University of the West Indies, Cave Hill Campus, Barbados

Jukka Similä and, Niko Soininen, University of Lapland, University of Eastern Finland, and University of Gothenburg, *Legal Mechanisms Facilitating and Hindering Transitions towards Sustainable Blue Economy*

Marleen van Rijswijk and, Sander van Hees, Utrecht University, Netherlands, *Dealing with environmental risks of marine renewable energy developments in EU waters*

Seema Kakade, University of Maryland, USA, *MARPOL Annex VI Sulfur Fuel Standards Using Technology for Enforcement and Compliance*

Simone Borg, University of Malta, *Climate Proofing Ocean Governance: A Journey through Unchartered Waters*

### **Smart and Sustainable Cities**

**5/7/18 11.15/13.00 Venue: TIC Conference Room 7**

Chair: Anél du Plessis, North-West University, South Africa

Paul Stanton Kibel, Golden Gate University, San Francisco, California, USA, *A Waterway Repurposed: Nature Parks Rise Along England's Manchester Ship Canal*

Jonathan Liljeblad, Swinburne University of Technology Law School, Melbourne, Australia, *A Risk Model to Assess World Heritage Sustainable Development Implementation: A Case Study of Pyu Ancient Cities, Myanmar*

Koh Kheng Lian, Asia-Pacific Centre for Environmental Law (APCEL), Faculty of Law, *Singapore and ASEAN Smart Cities Concept*

LYE Lin Heng, Asia-Pacific Centre for Environmental Law (APCEL), National University of Singapore, *Fresh Water for Singapore and Phnom Penh – Environmental Law, Policy, Governance & Management: Lessons in Innovation, Risk & Resilience*





## **Human Rights and the Environment**

**5/7/18 11.15/13.00 Venue: TIC Lecture Theatre Level 1**

Chair: Carmen G. Gonzalez, Seattle University School of Law, USA

Michel Prieur and Mohamed Ali Mekouar, International Center for Comparative Environmental Law, University of Limoges, France, *A New Frontier in Human Rights Law: The Proposed Third International Covenant on the Right of Human Beings to the Environment* (presented on behalf of the authors by Nathalie Herve-Fournereau and Alexandra Langlais)

Emilie Gaillard, University of Caen Normandy, France, *Human Rights for Future Generations: Opening the way to new legal actions*

Erin Daly and, James R. May, Widener University, Wilmington, Delaware, USA, *Indivisibility of Human Rights and the Environment?*

Bridget Lewis, Queensland University of Technology, Brisbane, Australia, *Emerging Environmental Technologies and the Rights of future generations*

## **Climate Conflict and Migration**

**5/7/18 11.15/13.00 Venue: TIC Conference Room 8**

Chair: Sylvie Da Lomba, University of Strathclyde

Kayode Babatunde Oyende, Lagos State University, Lagos, Nigeria, *Climate Change: Conflicts, Migration, Conservation and Mitigation Strategies*

Susana Borràs, Rovira i Virgili University, Tarragona, Spain, *Climate Migrations in a Context of Gender Inequalities: Tackling the Injustices of Poverty*

Anemoon Soete, Ghent University, Belgium, *Self-determination Meets Artificial Islands*

Alfredo dos Santos Soares, NOVA University of Lisbon, Portugal, *Environmentally and development-induced displaced persons, their protection under the Kampala Convention*

## **Climate Justice and Liability**

**5/7/18 11.15/13.00 Venue: TIC Conference Room 2**

Chair: Joana Setzer, Grantham Research Institute on Climate Change and the Environment, London School of Economics and Political Science, UK

Godwin Dzah, University of British Columbia, Canada, *Transforming Climate Change Litigation: Incorporating the 'African Voice' into a Global Discourse*

Morgan Eleanor Harris, LUMSA University, Rome, Italy, *Building Resilience Through Access to Justice: an Analysis of Recent Climate Litigation*

Samvel Varvastian, Mykolas Romeris University, Vilnius, Lithuania, *The Evolution of Climate Science and Extreme Event Attribution: Are We on the Verge of Major Breakthrough in Climate Change Liability?*

Andri G. Wibisana and, Conrado M. Cornelius, University of Indonesia, *A Tale of Climate Justice: The Indonesian Case – Hope or Nope?*

**Climate Engineering, Negative Emissions, and Carbon Capture and Sequestration**  
**5/7/18 11.15/13.00 Venue: TIC Conference Room 3**

Chair: Leonardus Gerber, University of Pretoria, South Africa

Endrius Cocciolo, Universitat Rovira i Virgili Tarragona, Spain, *Governing Climate Geoengineering. In Pursuit of the “just Transition” for the Earth System*

Bjørn-Oliver Magsig, University College Cork, Ireland, *Environmental justice in the age of geoengineering: Can international law control Pandora’s box?*

Benoit Mayer, The Chinese University of Hong Kong, Hong Kong, China, *Regulating Bioenergy with Carbon Capture and Storage: Existing and Emerging Principles*

Manon Simon, Wuhan University, China, *Regulating Transboundary Impacts of Weather Modification*

**The Governance of Biodiversity in National and Regional Contexts**  
**5/7/18 11.15/13.00 Venue: TIC Conference Room 5**

Chair: Solange Teles da Silva, Presbyterian Mackenzie University Law School, São Paulo, Brazil

Sabrina Carvalho Verzola, Federal University of Amapá, Brazil and Federal University of São Carlos, São Paulo, Brazil, and Ariadne Chloe Mary Furnival, Federal University of São Carlos, (Postgraduate Programme in STS), São Paulo, Brazil, *Biodiversity, traditional knowledge and innovation: challenges and conflicts concerning the legal system in Brazil*

Larissa Verri Boratti, King’s Brazil Institute, King’s College London, UK, and, Karen Kassmayer, Legislative Consultant, Federal Senate of Brazil, Brasília-DF, Brazil, *Environmental Law-making in Brazil: the Case of Regulating the Access to Biodiversity*

Chikosa Banda, University of Malawi, Zomba, Malawi, *Implications of the proposed reforms to the seed-related policies and laws for seed sovereignty and agro-biodiversity in Malawi*

Paul Martin, The Australian Centre for Agriculture and Law, School of Law, University of New England, Armidale, Australia; Amy Cosby, The Australian Centre for Agriculture and Law, School of Law, University of New England, Armidale, Australia, and, Carolina Dutra (in

absentia), Lawyer and Researcher in Environmental Law, Mackenzie Presbyterian University, Sao Paulo, Brazil, *Meta-governance for biodiversity protection in Australia and Brazil*

### **Challenges in Biodiversity and Traditional Knowledge Governance**

**5/7/18 11.15/13.00 Venue: TIC Conference Room 4**

Chair: Mika Schröder, Strathclyde Centre for Environmental Law and Governance

Laura Movilla Pateiro, University of Vigo, Spain, *Evolution and challenges in the regulation of marine genetic resources in the European Union*

Kylie Lingard, School of Law, University of Wollongong, Wollongong, Australia, and, Mark Perry, University of New England, Armidale, Australia, *Forest shadows: An assessment of the regulatory framework of the Western Australian Sandalwood Industry*

Guy Jules Kounga, University of Yaoundé, Cameroon, *The Commerciality of Genetic Resources and Traditional Knowledge*

Jacqueline Hand, University of Detroit Mercy Law School, USA, *Robust Consultation with Indigenous Peoples Supports Development that is Sustainable*

### **PP4SD - Public Participation for Sustainable Development**

**5/7/18 11.15/13.00 Venue: Court Senate**

(Session organized by Meiji University, Tokyo, Japan)

Hitoshi Ushijima, Chuo University, Tokyo, Japan, *How Does EIA Public Participation Work on Japan's Energy Policy?*

Noriko Okubo, Osaka University, Japan, *Public Participation in EIA and its indicator from the Asian perspective*

Tianbao Qin, Wuhan University, China, *Progress of Public Participation in Environmental Decision-Making in China: A Slow but Right Direction towards Sustainability*

Volker Mauerhofer, Meiji University, Tokyo, Japan, *The EU - Water Framework Directive Protect Case on Climate Change, Technical Progress and Access to Justice: Background, Practices & Pitfalls*

13:00 – 14:15 **Lunch and poster presentations**

14:15 – 16:00 **Parallel sessions**

- Liminal Spaces in Energy Governance
- Water, Human Rights and Public Goods
- The Future of Environmental Law and Governance
- What Futures? Techno-Fixes and the Role of Law and Governance in Land, Food and Agriculture
- Environmental Justice
- Risk and Resilience in Environmental Law and Governance
- Climate Change in the Courts
- Energy, Transport, and Supply-side Policies
- Risk, Science and Biodiversity
- Ecosystem Approach, Area-Based Management Tools & Marine Indicators
- *Goal Orientation of Environmental Governance - A Promising Approach Towards Innovative Sustainable Development?*

### **Liminal Spaces in Energy Governance**

**5/7/18 14.15/16.00 Venue: TIC Conference Room 8**

Chair: Meinhard Doelle, Dalhousie University, Halifax, Canada

Rosemary Lyster, Australian Centre for Climate and Environmental Law, The University of Sydney, Australia, *Innovation, Disruption and Resilience: Electricity grids in the face of climate disasters*

Leonie Reins, Tilburg University, Netherlands, *The Inter-Play between Innovation and Regulation: Carbon Capture and Storage in the European Union*

Romain Mauger, University of Groningen, Netherlands, *The European legal framework for electricity storage: Who benefits? Who supports the risks?*

James Prest, Australian National University, *Legal frameworks to encourage energy storage technologies: Transcending the false dichotomy between energy security and climate security*

### **Water, Human Rights and Public Goods**

**5/7/18 14.15/16.00 Venue: TIC Conference Room 4**

Chair: Zaki Shubber, IHE Delft Institute for Water Education, Netherlands

Ruby Moynihan, University College Cork, Ireland, *Benefit-Sharing in Transboundary River Basins: Challenging International Law to Consider Intra-State Equity Regarding Joint Infrastructure*

Germarié Viljoen, North-West University, South Africa, *Comparative reflections on water in the “public space”*

Gayathri D Naik, SOAS, University of London, UK, *Inter sectorial allocation of groundwater in India and water scarcity in cities: Human Right To water v Human Right to food?*

Mariana Elvira Nogales Paez, Informatic Bolivian University, La Paz, Bolivia, *Necessity of the Implementation of Resilience in Law and Policies for a Proper Protection of Natural Resources*

**The Future of Environmental Law and Governance**  
**5/7/18 14.15/16.00 Venue: TIC Lecture Theatre Level 1**  
Chair: Jolene Lin, National University of Singapore

Natasha Affolder, University of British Columbia, Canada, *Law in Motion: The Role of ‘Innovation’ in Explaining How & Why Environmental Law Is on the Move*

Carmen G. Gonzalez, Seattle University School of Law, USA, *Environmental Justice, Natural Disasters and the Social Pillar of Sustainable Development*

Massimiliano Montini, University of Siena, Italy, *Envisioning an ecological approach to environmental law*

Duncan French, Lincoln University, Lincoln, UK, *Science, Pseudo-Science and the Quickening Demise of General International Environmental Law?*

**What futures? Techno-Fixes and the Role of Law and Governance in Land, Food and Agriculture**  
**5/7/18 14.15/16.00 Venue: TIC Conference Room 5**  
Chair: Shawkat Alam, Macquarie University, Australia

Maureen Papas, University of Western Australia, *Land, food and agriculture: Promises and perils of technology and innovation*

Angela Lee, University of Ottawa, Canada, *Food-tures: Examining the role of technology and law in shaping sustainable food futures*

Paul Martin; Grant Pink (in absentia); Mark Perry and; Vivek Nemane, Australian Centre for Agriculture and Law, University of New England, Australia, *The merging frontiers of future-tech and agro-ecological governance*

Siva Barathi Marimuthu (Sharllene), University of New England, Australia, and, Paul Martin, Australian Center for Agriculture and Law, University of New England, Australia, *Bridging the gap between food security and agro-biodiversity*

### **Environmental Justice**

**5/7/18 14.15/16.00 Venue: TIC Conference Room 3**

Chair: Patricia Hania, Ted Rogers School of Business, Ryerson University, Toronto, Canada

Tokuma Daba, Ambo University Law, Ethiopia, *The Quest for Distributive Environmental Justice in Ethiopia*

Melanie Pimentel, Senior State Solicitor-Office of the Solicitor General, Philippines, *Greening the Forests: Protection for Sustainability of Indigenous Lands*

Donna Craig and Beatriz Garcia, Western Sydney University, Australia, *Legal Governance of Biosphere reserves in the Asian and Pacific Regions: Resilience and Risk in Marginalized and Vulnerable Communities across Different Cultures*

Estair Van Wagner, Osgoode Hall Law School, Canada, *Extracting Law's Resilience: The Duty to Consult, and Indigenous Environmental Governance on Private Property in Ontario*

### **Risk and Resilience in Environmental Law and Governance**

**5/7/18 14.15/16.00 Venue: TIC Conference Room 1**

Chair: Stellina Jolly, South Asian University, India

Louis J. Kotzé, North-West University, South Africa, *Law and the Governance of Risk, Innovation and Resilience in the Anthropocene: Towards a new Lex Anthropocena?*

Nathalie Herve-Fournereau, Researcher CNRS, Institut Law and Europe, University of Rennes, France, *The ambivalent concept of socio-ecological resilience: Epistemological reflections on its integration into law from European perspective*

Timothy Malloy, University of California, Los Angeles, USA; Igor Linkov (in absentia), United States Army Corps of Engineers; Benjamin Trump (in absentia), United States Army Corps of Engineers, *Risk, Resilience and Governance*

Alexandra Langlais, CNRS, Institut West: Law and Europe (IODE), Faculty of Law, Rennes, France, *Building resilience: towards the development of an ecosystem services law?*

### **Climate Change in the Courts**

**5/7/18 14.15/16.00 Venue: TIC Conference Room 7**

Chair: Annalisa Savaresi, University of Stirling, UK

Eduardo Alvarez Armas, Queen Mary University of London, UK, *Indirect International Climate-change Litigation: Compliance with Climate-change Obligations Through State-to-state Trade-related Dispute Settlement*

Esmeralda Colombo, University of Bergen Law School, Bergen, Norway, and, Anastasia Giadrossi (in absentia), Food and Agriculture Organization, *Litigation as a Tool for Advancing Climate-Smart Agriculture? A Hypothetical Judicial Case on the Andaman and Nicobar Islands*

Ketan Jha, University of Sussex, UK and Plan B Earth, UK, *Networked Public Interest Litigation: A New Framework for Climate Claims?*

Joana Setzer, Grantham Research Institute on Climate Change and the Environment, London School of Economics and Political Science, UK, *Climate Change in the Courts: Governance through Mobilization*

### **Energy, Transport, and Supply-side Policies**

**5/7/18 14.15/16.00 Venue: TIC Conference Room 6**

Chair: Feja Lesniewska, Research Associate at STEaPP, UCL, UK

Harro van Asselt, University of Eastern Finland, and, Cleo Verkuijl (in absentia), Stockholm Environment Institute, Oxford, UK, *Tackling Fossil Fuel Subsidies through International Trade Agreements*

Tom Kerns, Environment and Human Rights Advisory, Yachats, OR, USA, *The Permanent Peoples' Tribunal on Human Rights, Fracking and Climate Change: Evidence, Arguments and Findings*

Ivett Montelongo Buenavista, Metropolitan Autonomous University Campus Azcapotzalco, Mexico City, Mexico, *Transport in Mexico City: A Resilience Challenge facing Climate Change*

Ricardo Pereira, Cardiff University, UK, and, Alberto Quintavalla, Erasmus University Rotterdam, Netherlands, *The N Nadezhdaexus Between 'Energy Security' and 'Ecological Security': the Case for an Integrated Policy Framework for Effective Mitigation and Adaptation to Climate Change*

## **Risk, Science and Biodiversity**

**5/7/18 14.15/16.00 Venue: Insights Institute, Collins Building**

Chair: José Rubens Morato Leite, Federal University of Santa Catarina, Brazil

David Leary, University of Technology Sydney, Australia, *Synthetic Biology is a 'Game changer' for biotechnology. What are its implications for international environmental law?*

Elsa Tsioumani, Strathclyde Centre for Environmental Law and Governance, *Bioinformatics and Synthetic Biology: addressing new challenges for fairness and equity in genetic resource governance*

An Cliquet, Ghent University, Belgium, *Restoring species from extinction: is the law ready for a real Jurassic Park?*

Nsikan-Abasi Odong, University of Ottawa, Canada, *The Nigerian National Biosafety Agency Management Act and its Non-Precautionary Approach: Raising the Threshold?*

## **Ecosystem Approach, Area-Based Management Tools & Marine Indicators**

**5/7/18 14.15/16.00 Venue: TIC Conference Room 2**

Chair: Renée Martin-Nagle, Strathclyde Centre for Environmental Law and Governance

Merachelle Rala Borracho, University of Cebu, Philippines, *Sustainable Development: Beyond Good Governance and Grassroot Participation - A Case Study of How a 4th Class Municipality in the Philippines Maintains and Protects Two Marine Sanctuaries within its Territorial Jurisdiction*

Dawoon Jung, University of Edinburgh, UK, *Towards Sustainable Use of the Oceans: Offshore Renewable Energy Activities and Marine Spatial Planning*

Elizabeth A. Kirk, Nottingham Trent University, UK, *Mapping International Law to Dynamic Three-Dimensional Ecosystems*

Marie Bonnin, French National Institute for Sustainable Development, France, *Measuring the effectivité of marine environmental law: leveraging environment protection through the use of innovative tools*

## **Goal Orientation of Environmental Governance - A Promising Approach Towards Innovative Sustainable Development?**

**5/7/18 14.15/16.00 Venue: Court Senate**

(Session organized by the European Environmental Law Forum)

Lorenzo Squintani, Groningen, The Netherlands, *Target and programmatic approach in Lessons from the EU Air Quality Directive and German experiences*





Wolfgang Köck, Leipzig, Germany, *Lessons from the EU Air Quality Directive and German experience*

Moritz Reese, Leipzig, Germany, *Water law and its generation-target for ecologic water quality*

16:00 – 16:30 **Coffee break**

16:30 – 18:00 **Plenary: Entrepreneurial Innovation and Sustainability**  
**Venue: TIC Main Auditorium**

Scottish Government (Jon Rathjen, Team Leader, Water Industry Team)  
Brewgooder (Zoë Cuthbert, Chief Evangelist)  
Scottish Power (Andrew Philip- Legal Director Scottish Power Renewables)  
Our Power (Dawn Muspratt, Founding Chief Executive)  
SASOL (Francisca Wessels, Senior Manager Legal)

**1945 - Colloquium Dinner** – ([separate registration for those attending for less than three days is available here – must be booked by 25<sup>th</sup> June](#)) @ Radisson Blu Hotel, 301 Argyle Street G2 8DL Glasgow United Kingdom;  
<https://www.radissonblu.com/en/hotel-glasgow/map>

## List of poster presentations

Birgit Hollaus, WU Vienna University of Economics and Business, Austria, *To risk or not to risk that is the question. Who is accountable for the answer, yet a different one?*

Deepa Badrinarayana, Chapman University, California, USA, *The Right to Equal Protection and Assessment of Technological Risks*

Edson Luiz Peters, Universidade Federal do Paraná (UFPR), Curitiba, Brazil; Luis Henrique Braga Madalena, Universidade do Estado do Rio de Janeiro (UERJ), Rio de Janeiro, Brazil and; Samantha Ribas Teixeira, Pontifícia Universidade Católica do Paraná, Curitiba, Brazil, *Global environmental governance as a pathway to achieving a sustainable future within the Risk Society*

Hari Prasetyo, Universitas Indonesia, *Optimizing Environmental Tax to Mitigate the Climate Change: a Study of Indonesian Motor Fuel Tax (PBBKB) to Reducing CO2 Emission*

Henrik Fischer, Helmholtz-Centre for Environmental Research – UFZ Leipzig, Germany, *Sustainable Transformation towards more resilient Waste Water Technologies*

Izabela Zanotelli Collares, Mônica Thaís Souza Ribeiro (in absentia); Danuta Nogueira de Souza Calazans and; André Leão (in absentia), Research Team on Environmental Law and Sustainable Development of Ceub, Brazil, *Technology as a means of valuing traditional knowledge in the quest for sustainable development*

Larissa Barros, Marcia Leuzinger (in absentia) and Solange Teles da Silva, Brasília University Centre, Brasília and Presbyterian Mackenzie University, São Paulo, Brazil, *Remotely Piloted Aircrafts (RPAs): potential allies of Brazilian biodiversity conservation*

Li Zhiping, Sun Yat-Sen University, Guangdong, China, *Mechanism innovation and its reflection of justice of ecological environment restoration.*

Ling Chen (in absentia), Centre for International Governance Innovation, Waterloo, Canada, *Climate Cooperation in “Clubs”: A Case Study of Clean Energy Partnership*

Luis Henrique Braga Madalena, Universidade do Estado do Rio de Janeiro (UERJ), Rio de Janeiro, Brazil and; Samantha Ribas Teixeira, Pontifícia Universidade Católica do Paraná, Curitiba, Brazil, *Socio-environmental rights within the courts of justice: Can an inauthentic interpretation of procedural law contribute for the ineffectiveness of diffuse rights?*

Mahito Shindo, Waseda University, Tokyo, Japan, *Influence of the Aarhus Convention Compliance Committee on the activities of the Parliamentary Ombudsman and Environmental Ombudsman in Austria and Hungary*

Maria Maniadaki, Environmental Law Observatory of West Crete, Greece, *Monitoring the environmental law compliance with the help of Geographic Information Systems (GIS): The case of the Environmental Law Observatories in Crete*

Maxine Davis Phillips, University of Maryland Francis King Carey School of Law, USA, *The Implications of Deregulation: "Two for One" and Beyond*

Nadezhda Alekseeva, Russian State University of Justice, Moscow, *The remedy for accumulated environmental damage as a factor of sustainable development*

Nertila Kuraj, University of Oslo, Norway, *The Regulation of Synthetic Biology and the Wicked Problem of Definition, Lessons from Nanotechnology and Endocrine Disrupters*

Normawati Binti Hashim, Universiti Teknologi MARA, Malaysia; Syahirah Abdul Shukor, Universiti Sains Islam Malaysia, Malaysia; Hanim Kamaruddin, Universiti Kebangsaan Malaysia, Malaysia; Dina Iman Supaat, Universiti Sains Islam Malaysia, Malaysia and; Rasykah Mohd Khalid, Universiti Kebangsaan Malaysia, Malaysia, *Are Business Enterprises Accountable for the Protection of the Environment – the Perspective of the Human Rights.*

Rafael González Ballar, University of Costa Rica, *Social resilience an alternative to the process of adaptation of wildlife in Costa Rica (necessary changes in public policies and legislation)*

Ryoko Kusumi, CERIC-Aix-Marseille University, Aix-en-Provence, France, *Towards the revision of nuclear liability framework in Japan*

Valentina Dotto, Birmingham City University, UK, *The Urgenda and Juliana cases: Redefying the Notion of Environmental Democracy*

Mauricio Duarte dos Santos (in absentia), Mackenzie Presbyterian University, Sao Paulo, Brazil,  
Solange Teles da Silva, Mackenzie Presbyterian University, Brazil, Sao Paulo, *"Surfing reserve" as a sort of protected area: descriptive analysis regarding Brazilian and Australian scenario*

## Travelling to the TIC

### By Train to Central Station

Arrivals from the West of Scotland and most Intercity train services arrive at Central Station from where a 5/10 minute taxi drive will take you to the TIC Building.

Central Station to TIC (12 min walk)

Head north toward Gordon St, turn right onto Gordon Street, left onto Buchanan Street, right onto George St, TIC Building (venue) will be on the right.

### By Train to Queen Street Station

Arrivals from Edinburgh and the East come into Queen Street Station.

Queen Street Station to venue (9 min walk)

Head south on N Hanover St, turn left onto George Square, continue onto George St, TIC Building (venue) will be on the right.

### By Air & from Buchanan Bus Station

A frequent bus service runs from Glasgow International Airport to Buchanan Bus Station, which is then a 10 minute walk from the Campus.

Buchanan Bus Station to TIC (10 min walk)

Head south on N Hanover St toward Killermont St, turn left onto George Square, continue onto George St, TIC Building (venue) will be on the right.

### The Venue – Technology and Innovation Centre

Registration opens at 08.15 on Wednesday 4<sup>th</sup> July, please follow signs once you enter the building. Should you wish to register early for the event, early registration is available on Tuesday 3<sup>rd</sup> July from 15.30 to 16.30 in the Insights Institute, Collins Building, 22 Richmond Street, University of Strathclyde.



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