

CARLSBERG FOUNDATION

Decarbonization of Shipping and Alternative Fuels

CIL-CLIMA Conference

12 – 13 February 2025 (Wed – Thur), Singapore

Hotel: Four Points by Sheraton Singapore, Riverview (Hybrid Participation)

Meeting room: Jubilee Ballroom (4th Storey)

Address: 382 Havelock Rd, Singapore 169629

The **NUS Centre for International Law (CIL)** and the **Center for Climate Change Law and Governance (CLIMA) Faculty of Law, University of Copenhagen** are holding a two-day conference ‘Decarbonization of Shipping and Alternative Fuels’, which will take place in **Singapore and online (in hybrid format) on Wednesday and Thursday, 12-13 February 2025.**

The **CIL-CLIMA Conference on the Decarbonization of Shipping and Alternative Fuels** aims to examine the gaps in the applicable rules and regulations governing maritime transport, and how they can be addressed to enable safe and equitable transition pathways towards net-zero through the adoption of alternative fuels.

The rationale for this examination is that both industry and governments have started to invest heavily into the use of alternative fuels, and therefore have a common interest in promoting greater legal certainty around the regulatory regime applicable to alternative fuels. In addition, both industry and governments have an interest in the safety of alternative fuels to the health and welfare of seafarers.

This conference brings together a balanced representation of gender and levels of seniority of **scholars with an interest in shipping, energy transition and climate change** and features papers presented by invited speakers as well as authors selected through the call for abstracts. We aim to cover a diverse range of perspectives on and approaches to the conference themes, while ensuring that **early career researchers** can present their work.

*The agenda and titles of presentations are subject to change.

PROGRAMME DAY 1

TIME		Wed 12 February 2025	
08.30 – 09.00	REGISTRATION	<i>Pastry and beverages will be served</i>	
09:00-09:10	Opening and Welcome	<p>Tara Davenport, Assistant Professor, Faculty of Law, National University of Singapore; Co-Head, Ocean Law and Policy, NUS Centre for International Law (CIL)</p> <p>Beatriz Martínez Romera, Associate Professor, Faculty of Law, University of Copenhagen; Head of the Centre for Climate Change Law and Governance (CLIMA)</p>	
09.10 – 10:00	Keynote Addresses	<p>Shipping and the Environment: Evolution and Paradigm Change in the Age of Climate Change</p> <p>Robert Beckman, Emeritus Professor, Faculty of Law, National University of Singapore; Co-Head, Ocean Law and Policy, NUS Centre for International Law (CIL)</p> <p>Fuels and the Decarbonization of Shipping</p> <p>Tan Hanqiang, Deputy Director (International), Maritime & Port Authority of Singapore; Vice-Chair of Marine Environment Protection Committee (MEPC), IMO</p>	
10:00 – 11.30	Session 1: Overview of the Legal and Regulatory Environment on Decarbonisation	<p>Chair – David Freestone, The George Washington University Law School</p> <p>Decarbonization of Shipping in the light of the ITLOS Advisory Opinion</p> <p>Beatriz Martinez Romera, Faculty of Law, University of Copenhagen; Centre for Climate Change Law and Governance (CLIMA)</p> <p>Shipping Decarbonisation and the Implications of the BBNJ Agreement</p> <p>Zhen Sun, WMU-Sasakawa Global Ocean Institute, World Maritime University</p>	

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	<p>The Greenhouse Gas Fund as a Driver of Decarbonization in Shipping: Implementation and Regulatory Frameworks <i>Ranchun Wang</i>, University of Groningen, Netherlands</p> <p>Vulnerabilities in the Legal Structure of Shipping: Decarbonization Funds and Response Strategies <i>Wu Shuhao</i>, Koguan School of Law, Shanghai Jiao Tong University & <i>Liu Yuxi</i>, East China Sea Institute for Development Research, Ministry of Natural Resources, PRC</p>
11.30 – 12.00	<p>Break <i>Group Photo</i></p>
12:00 – 13:30	<p>SESSION 2 – Alternative Fuels: Understanding the Regulatory, Technological and Commercial Environment</p> <p>Chair – <i>Joel Ong</i>, Ocean Law and Policy, NUS Centre for International Law (CIL)</p> <p>Alternative fuels for shipping decarbonization post 2023 IMO Strategy (online) <i>Tristan Smith</i>, Bartlett School of Environment, Energy and Resources, University College London</p> <p>Decarbonising Shipping: A Case Study of Ammonia’s Potential as the Maritime Fuel of the Future <i>Ayushi Srivastava</i>, & <i>COMMODORE DEBESH LAHIRI (Retd)</i>, Journal 'Maritime Affairs', National Maritime Foundation (NMF), India</p> <p>Green Fuel Procurement: Incidence in the Shipping Value Chain <i>Viktor Weber</i>, Centre for Climate Change Law and Governance (CLIMA), University of Copenhagen</p> <p>Weighing anchor for low-carbon shipping: removing regulatory barriers <i>Florentin Blanc</i>, <i>Emmanuel Eckard</i> & <i>Hamsini Shankar</i>, European Public Law Organisation – Institute for Regulatory Innovation, Delivery and Effectiveness, OECD</p> <p>Contracts as enablers of Book & Claim systems for Alternative Marine Fuels in a Fast-evolving Regulatory Landscape</p>

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	<i>Pia Rebelo</i> , The City Law School, City University of London; Stephenson Harwood LLP
13.30 – 15.00	Lunch Break
15.00 – 16.30	<p>SESSION 3 – Just & Equitable Transition and Energy Justice</p> <p>Chair – <i>Beatriz Martinez Romera</i>, Faculty of Law, University of Copenhagen; Centre for Climate Change Law and Governance (CLIMA)</p> <p>Just Transition of the Shipping Sector</p> <p><i>Railla Puno</i>, Climate Change Law and Policy, NUS Centre for International Law (CIL)</p> <p>Decarbonising Shipping: The EU Emissions Trading System (ETS) and Challenges of Just Transition</p> <p><i>Zeynab Malakouti</i>, Faculty of Law, National University of Singapore; Université de Pau et des pays de l'Adour (UPPA), France & <i>Mohammad Hazrati</i>, Energy Law and Policy, NUS Centre for International Law (CIL)</p> <p>Equity-Related Considerations in the 2023 IMO GHG Strategy</p> <p><i>Goran Dominioni</i>, School of Law and Government, Dublin City University</p> <p>Hanua ‘e ‘os gasava: Delivering a Just and Equitable Transition within acti(vā)ted spaces and values, at the IMO: An Oceanic Perspective</p> <p><i>John Taukave (Lead author) & John Kautoke</i>, Department of Cultural Studies, Arts and Culture of the Faculty of Humanities, University of Amsterdam</p> <p>Patent Waivers for Alternative Shipping Fuels to Ensure Access among Least Developed Countries</p> <p><i>Dan Ziebarth</i>, Department of Political Science, George Washington University; Law Group, Wageningen University</p>
16.30 – 17.00	Break
17.00 – 18.30	SESSION 4 – Alternative Fuels: Safety and Environment

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	<p>Chair – <u>Youna Lyons</u>, Advisory Committee on Protection of the Sea (ACOPS); NUS Centre for International Law (CIL)</p> <p>The Critical Role of Technology in Alternative Fuel Adoption <i>Theshaya Naidoo</i>, College of Law & Management, University of KwaZulu Natal, South Africa</p> <p>The Role of the Precautionary Principle in Shipping Decarbonization Rafael Prado, IMO International Maritime Law Institute (IMLI), Malta</p> <p>Advancing Labor and Crew Training in Decarbonized Shipping: Insights from the Rotterdam-Singapore Green Corridor E. Prema, VIT School of Law, Vellore Institute of Technology, Chennai, Tamil Nadu, India & Ragul OV, High Court of Madras, India</p> <p>Charting a Course for a Greener Maritime Shipping Future: Overcoming Obstacles in Adopting Green Hydrogen while Mitigating Greenwashing Risks Tanya Agarwal, George Washington University</p> <p>Voyage into the Future: Ensuring Safety in Hydrogen Powered Shipping Darryl Isabel Auma, Kabarak University, Kenya</p>
18:30 - 21:30	BBQ Conference Dinner for all participants and speakers at: FPE Alfresco (1st Storey)

PROGRAMME DAY 2

TIME	Thur 13 February 2025
09:00 - 09:30	Arrival <i>Pastry and beverages will be served</i>
09.30 – 11:00	SESSION 5 – Liability and Compensation Chair – <u>Robert Beckman</u> , Ocean Law and Policy, NUS Centre for International Law (CIL)

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	<p>Liability and Decarbonization of Shipping <i>Michael Tsimplis</i>, School of Law, City University of Hong Kong</p> <p>Strengthening Liability and Compensation Mechanisms for Non-Persistent Oil Pollution: A Comparative Analysis of IMO Conventions and National Frameworks <i>Pankaj Avasthi & S. Shanthakumar</i>, Gujarat Maritime University, India</p> <p>New Non-Oil Bunker Fuels and Cargo: Gaps in IMO Liability and Compensation Regimes for Ship-Source Pollution of Ammonia, Methanol, and Liquefied Natural Gas (LNG) <i>Joel Ong</i>, Ocean Law and Policy, NUS Centre for International Law (CIL)</p> <p>Navigating Uncharted Waters: Developing a Comprehensive Liability Regime for Alternative Fuel Incidents in International Maritime Law <i>Manfredi Marciante</i>, LUISS Guido Carli University, Rome</p> <p>Responding to the low regulatory readiness for alternative fuels: A duty for flag States? <i>Maral Javidbakht</i>, Faculty of Law, Hamburg University</p>
11.00 – 11.30	Break
11.30 – 12.45	<p>SESSION 6 – Nuclear Powered Vessels</p> <p>Chair – Denise Cheong, Energy Law and Policy, NUS Centre for International Law (CIL)</p> <p>From Safety to Liability: Charting a Course for Nuclear-Powered Ships <i>S Nivedita</i>, Energy Law and Policy, NUS Centre for International Law (CIL)</p> <p>Nuclear Powered Ships and the protection of the marine environment: the (in)applicability of MARPOL <i>Youna Lyons</i>, Advisory Committee on Protection of the Sea (ACOPS); NUS Centre for International Law (CIL)</p>

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	<p>Towards an Equitable Governance Framework for Nuclear-Powered Merchant Ships in a Decarbonizing World: Rethinking Liability, Equity, And Safety from a Critical Legal Studies Lens</p> <p>Dr. Sudhir Verma, VIT-AP School of Law, VIT-AP University, India & Tanvi Anand, Geneva Academy of International Humanitarian Law and Human Rights</p>
12:45 – 13:45	Lunch Break & Day 2 Group Photo
13.45 – 15.15	<p>SESSION 7 – Regional approaches</p> <p>Chair – Danielle Yeow, Climate Change Law and Policy, NUS Centre for International Law (CIL)</p> <p>Regulating Black Carbon Emissions from Arctic Shipping: An Appraisal of Fuel Related Options</p> <p>Stella Ebbesmeyer, Centre for Climate Change Law and Governance (CLIMA), University of Copenhagen</p> <p>Decarbonization in Antarctic tourism: legal pathways and challenges</p> <p>Miaomiao Yin, Macquarie University (Australia) and Zhejiang University (China)</p> <p>The Hydrogen Prism for Maritime: Angles for Regulating Hydrogen Fuels in the EU Maritime Sector</p> <p>Kelsey Pailman, University of Groningen, Netherlands; THERESA MSCA Doctoral Network.</p> <p>Charting the Course for Sustainability: Mapping ASEAN’s Decarbonization Policies, Progress, and Challenges in Shipping and Alternative Fuels</p> <p>Gerald John C. Guillermo, University of the Philippines</p> <p>Legal and Regulatory Frameworks for Alternative Fuels in North African Shipping (online)</p> <p>Rachid Bouajila, University of Cape Town, South Africa</p>
15.15 – 15.45	Break
15:45 – 17.00	SESSION 8 – Domestic approaches

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	<p>Chair – <u>Stella Ebbesmeyer</u>, Centre for Climate Change Law and Governance (CLIMA), University of Copenhagen</p> <p>Sailing Through the Golden Gate</p> <p>Baine Kerr, Amsterdam Center for International Law, University of Amsterdam</p> <p>Examining Existing Measures for Shipping Decarbonisation in China and Exploring the Way Forward</p> <p>LI Xiaojing, School of International Law, China University of Political Science and Law</p> <p>Addressing Regulatory Challenges for Alternative Fuels in the Bay of Bengal Region: Opportunities and Obstacles</p> <p>Sabrina Hasan, School of International Law, East China University of Political Science and Law</p> <p>Assessing the Capability of Philippine Shipyards in Alternative Fuel Engine Retrofitting: A Guide for Policy Formulation</p> <p>Michaela Agtarap & Mary Grace Velasco, Training Department, Philippine Center for Advanced Maritime Simulation and Training, Inc. (PHILCAMSAT)</p>
17:00 - 18:00	<p>Closing Panel: Takeaways and Pathways for the Future</p> <p>Chair – <u>Dr. Zhen Sun</u>, WMU-Sasakawa Global Ocean Institute, World Maritime University</p> <ul style="list-style-type: none">- Prof. Beatriz Martinez Romera, Faculty of Law, University of Copenhagen; Centre for Climate Change Law and Governance (CLIMA)- Prof. David Freestone, The George Washington University Law School- Ms. Danielle Yeow, Climate Change Law and Policy, NUS Centre for International Law (CIL)- Prof. Michael Tsimplis, School of Law, City University of Hong Kong