



Call for Abstracts

International Conference: Transport, Climate Change and Clean Air

The fifth report by the Intergovernmental Panel on Climate Change (IPCC) shows that the increase in global average surface temperature is due to the observed increase in anthropogenic greenhouse gas (GHG) emissions. The report also reveals that keeping the average global temperature below a 2° increase will become more challenging over time. Despite the signing of the Paris Agreement in 2015 and the submission of Nationally Determined Contributions (NDCs) by 164 Parties, most countries still need to urgently transform their NDCs to specific measures and actions. At the same time, the United Nations Sustainable Development Goals (SDGs) are also part of a new Agenda that will shift the world onto a more sustainable and resilient path. These initiatives have created an opportunity for the design and implementation of policies that will address sustainable development and climate change simultaneously.

Transport is responsible for about 25% of global carbon dioxide (CO₂) emissions, a dominating greenhouse gas (GHG), with an increasing share in most countries, especially in Asia and Latin America. According to the International Transport Forum (ITF), the transport sector remains the sector with the fastest growing CO₂ emissions compared to the industry and energy sectors in the OECD countries. Although transport CO₂ emission levels in non-OECD countries are still relatively low, they will soon catch up with OECD countries. In addition, developing countries also have high levels of local air pollution, particularly sulfur oxides (SO_x), nitrogen oxides (NO_x), and particulate matter (PM), which is a pressing priority for most cities.

Global transport volumes have been projected to continue to increase. Passenger transport will more than double by 2050, the global vehicle stock will increase from 1 billion in 2015 to 2.4 billion in 2050, while freight transport is projected to triple. Global transport CO₂ emission could increase by 60% from 2015 level in 2050 under the business as usual scenario. However, having the appropriate mix of policies can significantly reduce carbon emissions, create transport co-benefits that will also decrease local air pollution and provide options for low carbon transport development. This conference seeks to identify priority areas that will have the greatest potential to reduce transport emissions in both passenger and freight transport and to share knowledge on best practice and latest research findings on emerging trends.

Conference Overview

This conference is organized by the World Conference on Transport Research Society (WCTRS) Special Interest Group (SIG) f2 on Transport, Climate Change and Clean Air. The focus of the conference is on current transport, climate change and local air pollution research, including the application of scientific methods on impact assessment or evaluation that will provide policy insights on efficient mitigation and adaptation measures for the transport sector. Such measures will include changes in various types of policies and mobility patterns, as well as technological innovations and disruptions. References to ongoing political discussions on all modes are highly welcomed.

The objective of this call is to have about 20 high-quality scientific presentations and fruitful discussions within each thematic field with national and international experts. Key outcomes from the discussions will be drafted as inputs to the [2018 Talanoa Dialogue](#), which is a facilitative dialogue whose inputs will be synthesized and presented at COP 24. It will contribute to the UNFCCC process to enhance Parties' ambition and help Parties with the preparation of NDCs.

A keynote speaker will be invited to set the scene and highlight the linkages between transport and climate change, as well as current challenges and emerging solutions (www.iip.kit.edu/1740.php).

Conference topics:

This conference will focus on the multiple aspects of transport and climate change, including the science behind transport emissions projections, mitigation and adaptation measures, case studies of sustainable transport development, measures that address local air pollution and carbon emissions, and the co-benefits of transport policies. Selected topics include the following (but not exclusive):

- Transport emissions projections and low carbon pathways
- Mitigation measures in passenger and freight transport
- Adaptation and resilience in transport infrastructure and services
- Comparative analysis and transfer of knowledge and best practice between developed and developing countries
- Sustainable transport development and co-benefits case studies
- The role of transport in developing successful NDCs and climate targets
- Messages from the transport research community to COP24, Katowice

Schedule:

Submission of Abstracts (two-pager): May 20, 2018

Notification of abstract status: June 1, 2018

Workshop date: 21 and 22 June, 2018

Location : CentraleSupélec, Bâtiment Breguet 3, rue Joliot Curie, 91192 Gif-sur-Yvette Cedex

Hotel Recommendation: Hotel Campanile Paris Saclay, rue Rue Joliot Curie, 91192 Gif Sur Yvette

<https://www.booking.com/hotel/fr/campanile-paris-sud-saclay.fr.html>

Participation is free of charge.

Abstract Specifications

Paper abstracts must give a concise overview of the topic and the method of analysis. It should not exceed two pages and should include the following sections: (1) overview, (2) methods, (3) results, (4) conclusions, and (5) references. Please visit <https://www.iip.kit.edu/1740.php> to download a sample abstract template. The corresponding author submitting the abstract must provide complete contact details, including mailing address, phone, and e-mail. Abstracts should be sent by e-mail before May 20 to jochem@kit.edu. Authors will be notified by June, 1st 2018 of their abstract status together with review comments. Authors whose abstracts are accepted may submit a revised version until June, 20 2018. Selected conference contributions will be transferred for peer-reviewed publication in the Elsevier Journal *Transport Research Part D: Transport and the Environment*.

We are looking forward to receiving your abstract and welcoming you to Paris in June 2018.

Wei-Shiuen Ng, Yannick Perez and Patrick Jochem

Dr. Wei-Shiuen Ng

International Transport Forum (ITF)
Organisation for Economic Co-operation
and Development (OECD)
2 rue André Pascal
F-75775 Paris Cedex 16, France
Tel: + 33 (0)1 45 24 99 31
wei-shiuen.ng@itf-oecd.org

Prof. Dr. Yannick Perez

CentraleSupélec
Bureau F 206, 3, rue Joliot Curie
Plateau de Moulon
91192 Gif-sur-Yvette Cedex, France
Tel: + 33 (0)6 31 61 87 28
yannick.perez@u-psud.fr

Dr. Patrick Jochem

Institute for Industrial Production (IIP)
Karlsruhe Institute of Technology (KIT)
Kaiserstr. 12
D-76131 Karlsruhe, Germany
Tel: +49 721 608 44590
patrick.jochem@kit.edu