

# 22nd International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes

10-14 June 2024, Pärnu, Estonia



<https://www.ut.ee/>



<http://www.klab.ee>

Partner on practical arrangements: Maailmaparandamise Aktivistide Algatusrühm MTÜ (Group of Activists for Improving All Around, NGO)

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## Final Announcement

22nd International Conference on  
Harmonisation within Atmospheric  
Dispersion Modelling  
for Regulatory Purposes

Pärnu, Estonia  
10-14 June 2024



Hestia Hotel Strand, the venue of HARMO 22

Co-organized by

**University of Tartu**  
Tartu, Estonia

**Estonian Environmental Research Centre**  
Tallinn, Estonia

## Audience

The 22nd International conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes (Harmo22) is aimed towards model developers, model users, environmental protection agencies and legislation experts. What distinguishes this conference from many others is its focus on common tools and methodologies

## Focus of the conference

The series of international conferences on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes is concerned with the improvement of “modelling culture” both in Europe and at an international level.

Dispersion modelling is widely used for regulatory purposes, both for permits and for assessments, but there is a lack of sufficient mechanisms to make modelling processes transparent and ensure trust in modelling results.

There are many open questions and aspects of this, such as: Are the models scientifically sound for the purpose they are used? Are the models validated against observations or physical experiments? Are the models properly used by the experts? Are the users familiar with good practices and do they avoid bad practices? Are model developments sufficiently quality assured? Are reference problems established? Is proper exchange of experiences ensured? Work on these questions is needed in order to assess the air quality impacts on society and nature, on human health, biodiversity and climate.

Such issues that are not specific for one particular model, but common to several, are in focus at the 22nd International conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes.

The series of Harmonisation conferences started in 1991 (see [www.harmo.org](http://www.harmo.org)) and is a natural forum for discussing modelling issues related to the European Union air quality directives. European networks such as the FAIRMODE network and COST Actions can use the conference in order to expose their work to a wider audience.

The Harmonisation conferences provide the ground where model users and decision-makers can bring their requirements to the attention of scientists and search together for better regulatory tools and indicators for the diverse impacts of air quality.

## Find further details:

<https://www.harmo.org/index.php?#mu-about>

<https://harmo22.ut.ee>

## Extended abstracts

Submission of extended abstracts will be open in January 2024, after confirmation of contributions, through web site: <https://harmo22.ut.ee/programme/abstracts> (based on previously submitted abstracts only!)

The **underlying driver** for all sessions is **modelling**, understood in general and wide terms, i.e. as modelling system, that include all components (meteorology, chemistry, dispersion, emissions...) as well as related datasets for evaluation.

**Harmonisation** of modelling approaches encompasses the following activities (not exhaustive): inter-comparison exercises, common evaluation protocols, shared datasets for model evaluation... Starting from these two key items, the HARMO Conferences build around ten key topics.

*Topics 1 to 6 address harmonisation of modelling approaches in the following fields:*

- T1: Approaches to model evaluation and quality assurance
- T2: Regional / long-range scale modelling
- T3: Urban Scale and Street Canyon Modelling
- T4: Health and exposure assessments
- T5: Inverse modelling, source identification and apportionment
- T6: Dispersion modelling and exposure to accidental releases

*Topics 7 and 8 focus on the support to the development of regulatory models:*

- T7: Air pollution management and decision support systems
- T8: Support to EU legislation on air quality modelling

*Topics 9 and 10 are dedicated to new advancements and reviews of “golden papers” of the past*

- T9: Theoretical studies on atmospheric processes for dispersion modelling
- T10: Highlights of past works, which should not be forgotten

### *Special Sessions in Harmo22*

- SS1: Harmonisation of tools for assessing effects and impacts of energy and climate policies on air quality
- SS2: Can machine learning approaches be harmonised with dispersion modelling? Can they be used for regulatory purposes?

The basic criteria when selecting papers for oral presentations is how well they fit into the philosophy of developing an improved modelling culture where modellers as well as regulators and users will efficiently use each other's experience.

## Important Dates

Deadline for submission of short abstracts (less than 350 words) has been passed by **November 20, 2023**

Confirmation for acceptance of contributions will be made by **January 19, 2024**

Five-page extended abstracts should be submitted by **April 30, 2024**

## Conference fees

	Early Bird until 31.03.2024	Regular from 01.04.2024 to 15.05.2024	Late fee & on-site from 16.05.2024
Attendee	€ 400	€ 450	€ 500
Scientific Committee	€ 350	€ 400	€ 450
Student	€ 200	€ 300	€ 400
Accompanying person	€ 100	€ 100	€ 100

A 10% discount is applied to every 2nd or multiple participation from the same work group (does not apply for student's rate).

Requests for discounts should be sent to **harmo22@ut.ee**

The registration fee includes:

*Ice-breaker, Social Dinner, Lunches, Daily coffee breaks*

The registration fee for accompanying person includes:

*Ice-breaker, Social Dinner.*

## Location

The Conference will take place in Hestia Hotel Strand, 10-14 June 2024. See <https://www.hestiahotels.com/strand/>

Hotel Strand, a four-star SPA hotel with 187 comfortable rooms to stay and 8 conference halls, two of them will be in use for HARMO 22 sessions. Registered participants are to be announced on details on booking the block-reserved rooms with negotiated prices. Intending to participate, you are welcome to contact on hotel booking code and details, sending an e-mail to [harmo22@ut.ee](mailto:harmo22@ut.ee).

However, there are several alternative options to stay of various quality and price at walking distance. Early reservation is recommended due to beginning of summer season!

More information on registration and how to access the site, is available at: <https://harmo22.ut.ee>

## Co-Organized by

The University of Tartu ([www.ut.ee](http://www.ut.ee)) founded in 1632 is the highest-ranking university in Baltic countries (Estonia, Latvia, Lithuania), being among 1.2% of World's best universities. With its 13,600 students (incl. 1100 doctoral students) and 3600 employees (incl. 209 professors) and 31 institutes is University of Tartu the largest in Estonia.

Estonian Environmental Research Centre ([www.klab.ee](http://www.klab.ee)) is a government-owned company for applied environmental chemical and physical research. Estonian Environmental Research Centre (EERC) provides analyses of quality of water, food, fuel etc. to wide range of clients and is responsible for a large part of national environmental monitoring network, including air quality monitoring and modelling.