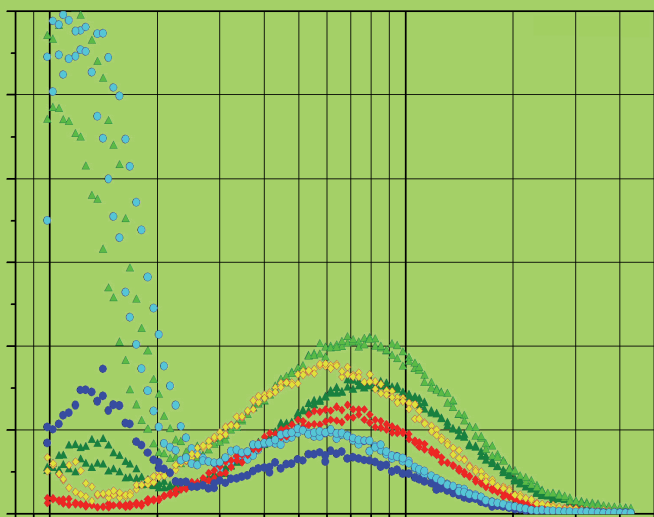


Online  
Conference

Invitation and call for e-papers to the

# 24<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles

**Focus Event:  
Combustion and Climate Change**



June 22 – 24, 2021

ETH Zürich, Switzerland – online

[www.nanoparticles.ch](http://www.nanoparticles.ch)

#ethnpc2021

No conference fee, sponsors welcome

Under the auspices of  
FOEN, SCS and ETH



SCS  
Swiss Chemical  
Society

## 24<sup>th</sup> ETH-Conference on Combustion Generated Nanoparticles

The ETH Conference on Combustion-Generated Nanoparticles in 2021 is organized as an online conference under the auspice of the Swiss Chemical Society. It serves as an interdisciplinary platform for expert discussions on all aspects of nanoparticles, freshly emitted from various sources, aged in ambient air, technical mitigation aspects, impact of particles on health, environment and climate and particle legislation. The conference brings together representatives from research, industry and legislation.

### Conference Topics

- Aircraft, marine and other non-road sources
- Ambient air particles, secondary pollutants
- Biomass-, biofuel- and synfuel combustion
- Emission control of combustion engines
- Emission upgrade and PTI for in-use vehicles
- Environmental and health effects
- Exhaust aftertreatment systems
- Future legislation and enforcement
- Impact on climate
- Nanoparticle formation and transformation
- Nanoparticle metrology and chemical characterization
- Nanoparticle chemistry and toxicology
- Occupational exposure and prevention

### Focus Event: Combustion and Climate Change

Combustion engines are produced at large scales and applied worldwide to transport goods and people. The IPCC estimated that 7.0 Gt CO<sub>2</sub> eq. of direct greenhouse gas emissions were released by the transport sector in 2010. This corresponded to 23% of the total energy-related CO<sub>2</sub> emissions. Without aggressive mitigation policies, transport emissions are expected to reach 12 Gt CO<sub>2</sub> eq. by 2050. Thus decoupling of the transport sector from CO<sub>2</sub> emissions will be a major challenge to tackle.

### Health Session

The session will provide new experimental and epidemiological results about health consequences of combustion emissions. Special emphasis will be on aspects of air pollution and viral infections, including the COVID-19 epidemic.

## e-Papers and e-Posters

- We invite you to submit abstracts for oral and poster presentations on the registration page [www.nanoparticles.ch](http://www.nanoparticles.ch).
- Abstracts must contain new information and results related to the aforementioned topics.
- Best e-poster presentations will be awarded with prize money and certificates.
- Presenters at the conference will be invited to submit full length papers for publication after peer-review, in the journal "Emission Control Science and Technology"
- All contributions (including pdf and video files of talks, posters and abstracts) will be published on the conference page.  
Submission of an abstract includes your agreement for publication on the conference homepage.

## Scientific and Organizing Committee

Anita Anselmi, Lunge Zürich

Oliver Bischof, TSI

Peter Bonsack, FOEN

Prof. em. Dr. Heinz Burtscher, FHNW/ISE

Prof. em. Dr. Jan Czerwinski, BFH/AFHB, Biel

Prof. Dr. Danilo Engelmann, BFH/AFHB, Biel

Prof. em. Dr. Peter Gehr, University of Bern

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David Spichiger, Swiss Chemical Society

Dr. Martin Stöckli, Inspire AG, ETH

Dr. Konstantina Vasilatou, METAS

Yan Zimmerli, BFH/AFHB, Biel

## e-Exhibition

The virtual exhibition on particle measurement instrumentation (PMI) and emission control devices (ECDs) is an important part of the conference.

For further information and registration contact:

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## Deadlines

- Abstract submission for oral and e-poster presentations: April 2, 2021
- e-Exhibition application: April 2, 2021
- Information on paper/poster acceptance by May 7, 2021
- Registration for participants: May 21, 2021
- Video upload for virtual posters: June 17, 2021

## Registration and Conference Fee

Online registration is required under [www.nanoparticles.ch](http://www.nanoparticles.ch) where abstract and exhibitor application forms are available. No participation fee will be charged. This is possible only thanks to the generous financial support of our sponsors.

## Further Information

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## Under the Auspices of

ETH, Swiss Chemical Society,

Federal Office for the Environment, FOEN

Online  
Conference

The paddle wheeler "City of Zürich" would possibly be the most spectacular way to approach the Conference, but due to the COVID pandemic, this has to be postponed by another year.

