



MOVING TARGETS IN NANOPARTICLE ABATEMENT

12th VERT Forum, March 24th 2022



About the VERT[®] Forum

The annual VERT Forum this year as e-conference is a one-day conference in cooperation with EMPA, the Swiss Federal Laboratories for Materials Science and Technology and AFHB, Vehicle Emissions and Powertrain Systems Laboratories.

Scientists and practitioners discuss the latest trends of Best Available Technology to minimize health and climate impact of combustion engine exhaust.

Cordially invited are members of

- Environmental and municipal traffic authorities
- Indoor air cleaning community and HVAC
- Public and occupational health authorities
- Light and heavy duty vehicle manufacturers and operators
- Manufacturers, operators of vessels, locomotives and airplanes
- Public transport, harbor and airport management
- Emission regulatory authorities and research institutes
- Manufacturers of emission control technologies
- Manufacturers of emission measurement equipment.

The new format of the conference will leave lots of opportunities for discussions and questions.

Registration

[Registration Link VERT FORUM 2022](#)

There is no participation fee (Registration needed)
The conference will start at 9 am CEST and end at 6 pm CEST
Conference opens at 08:30 am

E-Conference venue

The conference will use Zoom Business Technology
For registered participants exist the opportunity to view most of the presentations online and get the opportunity to contact speakers and participants

What VERT[®] stands for

An association dedicated to the promotion of Best Available Technology for emission control.

The core objective of VERT[®] is the minimization of health burden caused by combustion engine emissions, esp. the elimination of Ultra Fine Particles (UFP).

Members of VERT[®] are international manufacturers of engines, testing devices, DPF and SCR systems, as well as of substrate producers, chassis builders, among others.

VERT[®] stresses and recommends the application of particle number measurement against a pure particle mass metrics. Very light Ultra Fine Particles (UFP) cause a major threat to health.

We set the highest quality standards for emission control technology by certifying emission control technologies (VERT[®] Label) and publishing the VERT[®] filter list.

[VERT-Filterlist](#)

VERT[®] supports traffic pollution reduction programs all over the world, esp. in megacities, occupational health and indoor.

Key Elements of the upcoming 12th VERT Forum 2022

March 24th 9 AM until 6 PM

ACCESS TO CONFERENCE ROOM

- 08:30 am | Opening of Zoom conference
- 08:50 am | Conference Instruction and guidance
Zoom business technology Information

START AND WELCOME

KEYNOTE SPEECH ON INDOOR AND OUTDOOR RISKS OF ULTRA FINE PARTICLES

TOXICITY OF INDOOR AND OUTDOOR NANOPARTICLES AND BIOAEROSOLS

NEW PERIODICAL TECHNICAL INSPECTIONS NOW LEGALLY ADOPTED (NPTI)

REDUCTION OF NANOPARTICLES FROM IN-USE GASOLINE CAR FLEETS IN THE FRRAMWORK OF THE EU HORIZON FRAMEWORK

FILTER FOR NON-COMBUSTION GENERATED NANOPARTICLES COMING INTO FOCUS BREAK WARE, TIRE WARE, ...

EMISSION REDUCTION FOR MARINE APPLICATIONS - THE FORGOTTEN CORNER

EURO 7/VII MUST RESPECT SECONDARY TOXIC SUBSTANCES

INTERNATIONAL MARKETS AND ACTIVITES FOR NANOPARTICLE REDUCTION

MOVING TARGETS IN NANOPARTICLE ABATEMENT

For three decades, the international VERT Association has been consciously working to increase awareness of verified emission-reduction technologies, with a specific emphasis on the best available technology for carcinogenic combustion-generated nanoparticle applications and NOx minimization for diesel engines. It is now widely accepted that all lung-penetrating emissions (irrespective of particle size) are a concern, not just in terms of diesel engines but also combustion engines in general and all applications.

The VERT Forum is often the nucleus for several development projects, highlighting problems and various solutions, from small handheld equipment to large stationary & marine applications.

VERT introduced the particle number (PN) criterion for health reasons, which is now the basis of European and Chinese legislation. VERT has successfully initiated the introduction of a New Periodic Testing Inspection (NPTI) system to ensure that products and technologies are not only functionable and efficient during test & validation but also during normal operation over time.

In an environment of MOVING TARGETS and DIRECTIONS IN NANOPARTICLE ABATEMENT the VERT FORUM moves to a more holistic approach to zero environmental impact from combustion technology and mobility in general.

The journey of traditional vehicle and machinery retrofitting will continue but in close conjunction with other emissions-related areas that can exploit the benefits of the experts with globally applied know-how joining every year the VERT FORUM.

Be part of it!



Lars Christian Larsen,
VERT President

VERT Forum 2022 on March 24th

9 AM until 6 PM



Information for Attendees

The VERT Forum 2022 again is organized as a **virtual conference**.

As **technology** we use is **Zoom Business**, one of the most common web conference tools these days.

For you as speaker we highly recommend to **use the zoom desktop app** and NOT the participation via web browser.

Please **download and install the app** on your computer before the event. If you are in a company network, you may need support of the technical team of your company for firewall parameters and settings.

You find zoom under: <https://zoom.us/download>

For entrance use your link from the registration.

It is mandatory to register before you are entering the conference. If you lost your registration link you can always register again and immediately join the conference again under:

[Registration Link VERT FORUM 2022](#)

We have decided that **all speakers at the VERT FORUM will present their presentation live**.

We are convinced that this procedure supports the exchange character of the VERT Forum more than pre-recorded videos.

There is an opportunity for you to **actively participate in the discussions** and to **interact via the chat with the speakers**.

Please take advantage of this opportunity and be part of a lively and active event.

Presentations will be available a couple of days after the event on the VERT website for the participants.

We recommend a **minimum internet bandwidth of 16 Mbit download** so that everything runs "smoothly" on your computer. You can check this at: <https://speedof.me>

For questions and recommendations in advance, please contact:

For contributions, speakers and papers:

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For any organizational topic:

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For the reservation of a breakout room during the conference:

V. Hensel volker.hensel@aurigna.com

Registration

Please register under

[Registration Link VERT FORUM 2022](#)

There is no participation fee

The conference will start at 9 am (opening at 8:30 m) and last until 6 pm CEST

In case of any registration issue please contact office@vert-dpf.eu