



VERT NPTI Focus Event, July 7th 2021

Introduction of PTI by Particle Number Count at Idle to Detect High Polluters
New VERT Standard for Instruments and PTI Procedures to Support the ww Introduction

Registration

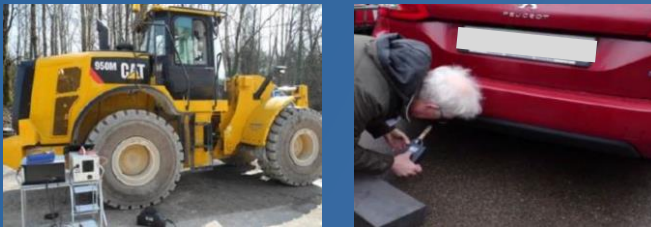
[Registration Link VERT Focus Event](#)

There is no participation fee (Registration needed)
The conference will start at 11 pm CEST and end at 4 pm CEST
Conference opens at 10:30 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

About the PTI Focus Event



- **Very Few High Polluters dominate today the traffic related air pollution in cities**
 - Ultrafine Particles are by far the most dangerous pollutant with 10.2 Mio death p.a. (Harvard 2021)
 - We share results and measures to detect high polluters
 - By eliminating the high polluting 5% of the fleet the Ultra Fine Particles will be reduced by Factor 10
 - Diesel-Fleet Zürich, Brüssel, Madrid 5-8% high polluter; petrol fleet Mexico city 3-5 % high polluter base to require immediate remedy by the owner - repairs might be cheap and fast
- **To detect this «dirty tail» of the quality statistics needs annual PTI**
 - Standards have been elaborated by the international VERT-NPTI working group
 - New Instruments under the VERT Standard Procedures are now commercially available to detect these high emitters via PTI
 - PN based PTI is legally implemented in NL, B, CH; D; can be transferred to any place
 - We share best practice to implement this in a legal frameworks based on the experiences of the new PTI implementation based on in-use PN limits

What VERT® stands for:

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

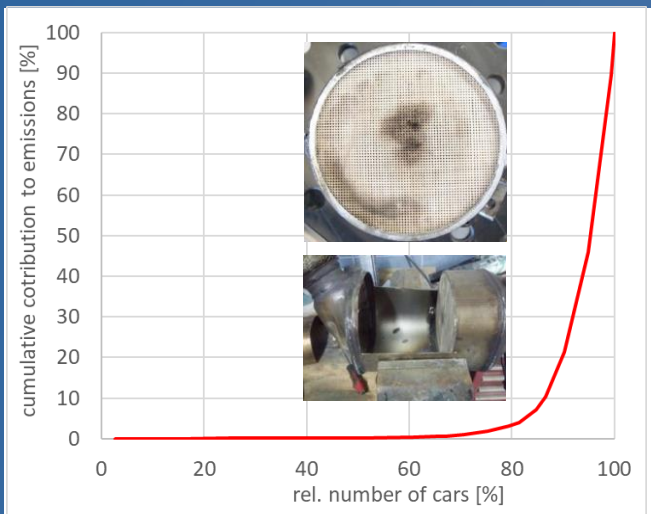
The Core objective of VERT® is the minimization of health burden caused by combustion engine emissions, esp. the elimination of Ultra Fine Particles (UFP)

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® supports traffic pollution reduction programs all over the world, esp. in megacities



VERT provides the technical standard and support for worldwide application



AGENDA VERT NPTI Focus Event on July 7th 2021

11:00 pm until 4:00 pm CEST

ACCESS TO CONFERENCE ROOM

- 10:30 am | Opening of Zoom conference
- 10:50 am | Conference Instruction and guidance Zoom business technology Information

START AND WELCOME

- 11:00 am | Welcome VERT Association L. Larsen; VERT

KEYNOTE SPEECH

- 11:05 am | Alarming global mortality from fine particle pollution generated by fossil fuel combustion
J. Schwarz; Harvard University, US

HIGH EMISSIONS DUE TO FAILURE RATES OF DEFECT OR MANIPULATED EMISSION CONTROL DEVICES

- 11:30 am | NPTI – a VERT engineering initiative started in 2016: VERT-Standard TA-024 for periodical inspection for modern fleets by PN at idle is now ready for worldwide application
A. Mayer; VERT, CH
- 11:50 am | In Belgium emissions due to DPF failure rates are far too, which required implementation of PTI with number count at idle
P. Beukenhoudt; GOCA, B
- 12:10 pm | High emitters dominate PN emissions of petrol LDV in Mexico City - and probably also in other large cities
C. Dominguez; GESSPA, Mexico
- 12:30 pm | DPF-retrofitted bus fleets in Chile - first VERT PN idle inspection 2015
N. Fraser; Chile
- 12:50 pm | PTI by PN at high idle for the Swiss DPF-since 2012 regulated
J. Czerwinski / VERT, CH

1:10 pm – 1:30 pm BREAK

NEW PERIODICAL TECHNICAL INSPECTIONS - BEST PRACTISE AND SOLUTIONS

- 1:30 pm | Why is PTI for modern vehicles needed in addition to OBD, market surveillance and remote control
K. Matthias; TÜV, Germany
- 1:50 pm | New PN test at idle elaborated in the Netherlands
G. Kadijk, NL
- 2:10 pm | From the development of an instrument standard for VERT-NPTI to an international new PTI standard with PN counting at low idle
H. Burtscher; FHNW, Switzerland
- 2:30 pm | Legislation breakthrough in the Netherlands for the introduction of PTI of modern diesel vehicles with respect to ultrafine particles, followed by Belgium and Germany.
H. Peeters Weem; RDW, Netherlands

2:50 PM – 3:40 PM | TECHNOLOGY INTRODUCTION OF IN-USE PARTICLE INSTRUMENTS BREAK OUT ROOMS

- Technology introduction of the new PTI Devices and breakout rooms by DEKATI; MAHA; Sensors; TSI; 3DATX

REPAIR AND LOGISTICS

- 3:40 pm | Repair and replace of damaged emission control devices – aftersales and logistics expertise
K. Schrewe / HJS, Germany
- 4 pm | Closing remarks and summary
V. Hensel / VERT, CH
- End of Focus event

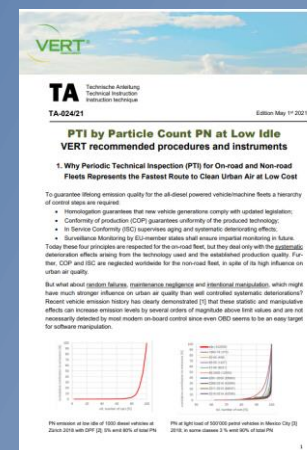
BACKGROUND

A small number of high emitters dominates the PN pollution of our urban air, diesel as well as petrol vehicles. 2016-20 a dedicated group of emission experts, the VERT NPTI task force elaborated new test procedures and robust instrument standards to detect these pollution culprits during PTI in less than three minutes, legally reliable, by PN count at low idle speed.

MISSION COMPLETED

Instruments of renowned manufacturers are now available, and the emission control method is implemented in the emission legislation of the NL, B, D, CH. We believe this to be the most powerful tool to clean the urban air fast, efficient and at low cost. VERT offers information, quality protection and support for the implementation to cities and governments.

VERT TECHNICAL INSTRUCTION FOR NPTI



Information for Attendees

The VERT NPTI FOCUS Event this year again is organized as a **virtual conference**.

The **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 Focus Event](#)

We have decided that **all speakers at the VERT NPTI Focus event 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.

The NPTI Focus event will **be partly recorded**.

Presentations are available a couple of days after the event on the VERT website.

For any technical problem **DURING the conference** please contact:

info@aurigna.com

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 all technical questions in advance, please contact:

office@vert-dpf.eu

Registration

Please register under

[Registration Link VERT Focus Event](#)

There is no participation fee

The conference will start at 11 am (opening at 10:30 m) and last until 4 pm CEST

For more information, please contact volker.hensel@aurigna.com.