

# Air Filtration Webinar 2021

## Testing against the virus – Protection for your health

Introduction

**Dipl.-Ing. (FH) Martin Schmidt**

Division Management Aerosol technology and Filter Testing  
Industry and Science  
Palas GmbH Karlsruhe/Germany

Dissemination and treatment strategy for hypoxemic insufficiency in SARSCoV-2 patients

**Dr. med. Patrick Stais, Lt. Oberarzt**

**Dr. med. Thomas Voshaar, Chefarzt u. ärztl. Dir.**

Medizinische Klinik des Bethanien Krankenhauses in Moers/Germany

Aerogenic spread of SARS-CoV-2 and the resulting recommendations for face mask

**Dr. Gerhard Scheuch, CEO**

GS Bio-Inhalation GmbH, Gemünden/Germany

Accelerated face mask testing according ZLS-testing procedure

**Dr. rer. nat. Dirk Renschen**

Produktprüfung Kälte/Luftqualität  
DMT GmbH & Co. KG, Essen/Germany  
TÜV Nord Group

EN149 Penetration test –Uncertainties and physical background of the measurement technology

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EN149 Penetration test – Uncertainties and physical background of the measurement technology

**Dipl.-Ing. Martin Schmidt**

Division Manager Aerosol Technology and Filter Testing - Industry and Science  
Palas GmbH

**Martin** was born on 1st June 1969 in Stuttgart. 1998 He made his Graduate Engineer at the University of Applied Science Niederrhein, Germany, Branch of Study: Process Engineering. From 1998 to 2005 he was Sales and Application Engineer at Palas® GmbH in Karlsruhe. Since 2005, he is Division Manager for Aerosol Technology and Filter Test Systems at Palas® GmbH, Karlsruhe/Germany.

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Aerogenic spread of SARS-CoV-2 and the resulting recommendations for face mask

**Dr. phil nat Gerhard Scheuch**

Founder and CEO GS Bio-Inhalation in Gemünden / Germany

GS-Bio-Inhalation is a pulmonary consulting company. Dr. Scheuch is a Bio Physicist with many years of experience in Medicine and Pulmonary Drug Delivery. Involved in different Pharmaceutical Developments in Aerosol-Inhalation Therapy. Regulatory Expert at EMA and serving on different scientific advisory boards of big Pharma Companies. Founder and CEO of Activaero a drug development company until acquisition by Vectura Group plc in March 2014. Founder of Inamed which is a CRO specialized in the field of respiratory diseases and Ventaleon which is a project company using inhaled LASAG to treat different respiratory viral infections.

Specialties: Pulmonary Deposition of inhaled Aerosols, In vitro in vivo correlation. Deposition measurements and modelling. Inhalation Product development.

Dr. Scheuch's research interests include deposition and distribution of inhaled aerosols in the human respiratory tract, mucociliary clearance mechanisms, and drug delivery to the human lungs to treat pulmonary diseases. He has published over 150 scientific articles on aerosol and lung research. He is also a member of the expert panel of the European Medical Agency (EMA) and more recently, was involved in developing the guidelines on orally inhaled products (OIP-Guideline).

From 1999 until 2013 he was member of the Board of ISAM and served as President from 2009-2011



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in SARS-CoV-2 patients

**Dr. med. Patrick Stais**

Managing Senior Physician – Pulmonary Clinic  
Bethanien Krankenhaus Moers/Germany

Specialist in internal medicine and pneumology  
Additional qualification in palliative care  
Master of Laws (LL.M.) medical law  
Team Dr. med. Thomas Hermann Voshaar

Dr. Stais studied medicine in Düsseldorf, Sheffield and Zurich.  
He received his medical specialist in internal medicine, in pulmonology and in palliative care in  
2013/2014

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Accelerated face mask testing according to ZLS-testing procedure

**Dr. rer. nat. Dirk Renschen**

Head of the Refrigeration & Air Quality Product Testing Department  
DMT GmbH & Co. KG

Dr. Renschen made his doctorate in the field of environmental measurement technology with a thesis on trace analysis of environmentally toxic VOCs. He then worked for several years in the R&D department of an international air filter manufacturer.

Since 2007, Dr. Renschen is head of the Refrigeration & Air Quality Product Testing Department at DMT GmbH & Co. KG a company of the TÜV NORD GROUP. His professional focus is on air cleaner testing and certification in cooperation with TÜV NORD CERT. He is an appointed and sworn expert for the inspection of evaporative cooling systems and wet separators and head of DMT's group for emission and immission measurements.

He participates in the mirror committee for air filters of the VDMA and the VDMA working groups Air Filters & Dedusting as well as in the KRdL in the VDI guideline committee VDI 3954 "Effects of particles on technical products".

