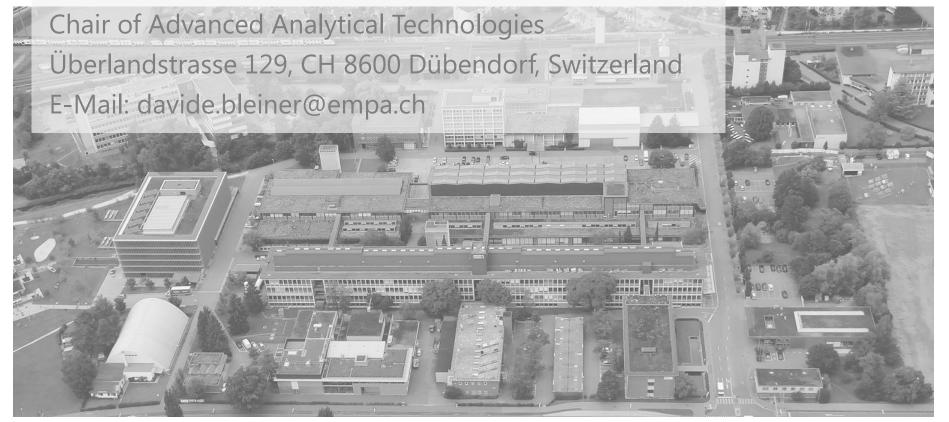


Materials Science and Technology

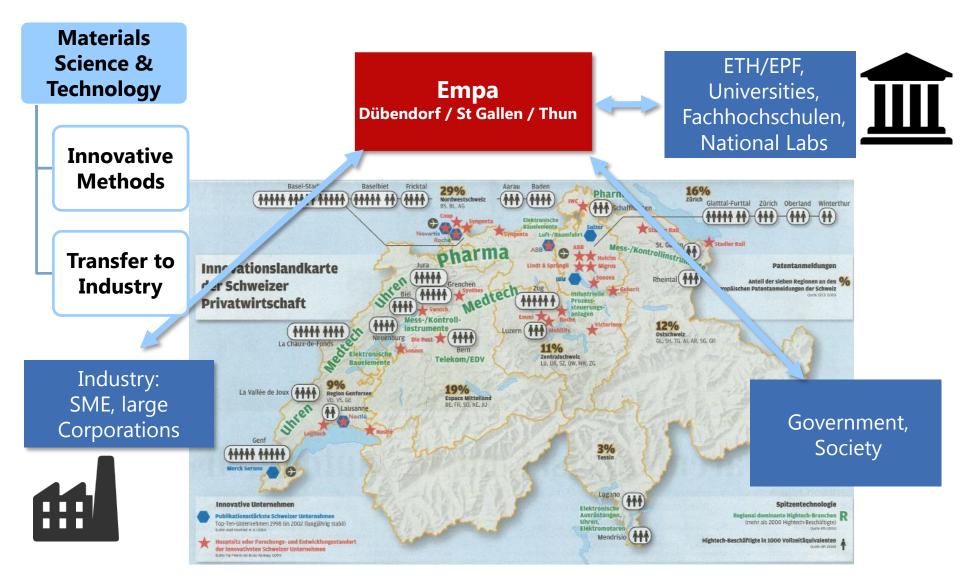
Davide Bleiner

Welcome Opening



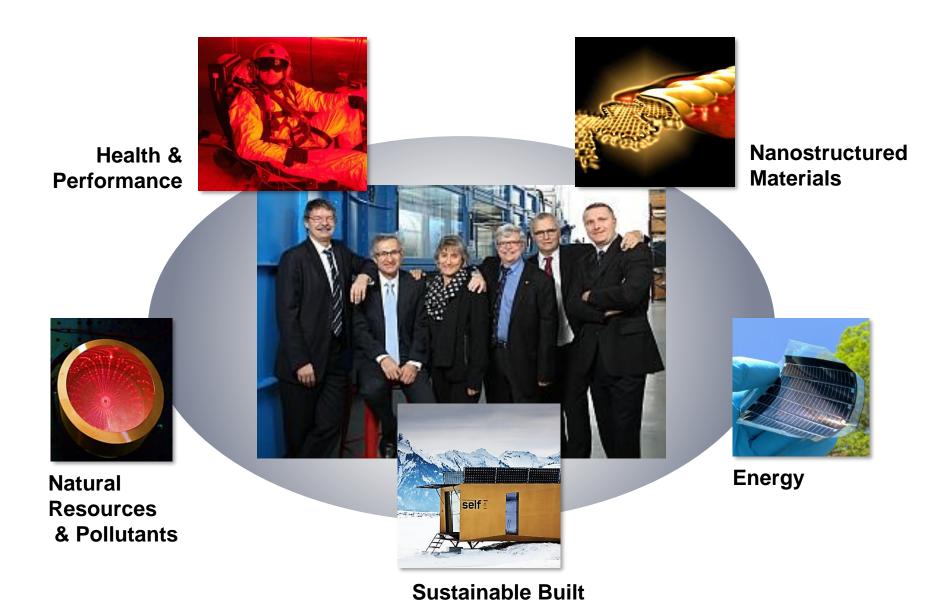
Empa Bridge Between Academia & Industry





Empa's Research Focus Areas





Division "Advanced Analytical Technologies"

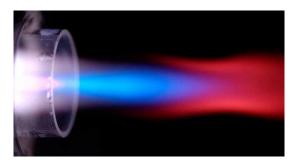




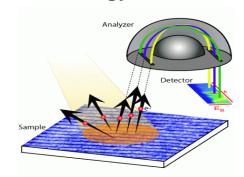
Exhaust Pollution Analysis (Joint with ETHZ / Prof. J. Wang)



Instrumental Chemical Analysis



Spectroscopy of Energy Materials





Funding	3 M€
Members	45
Ave. Age	31
Women	48%
Nationalities	13
PhD Theses	12

www.empa.ch/analytik

Visit the Lab Web Pages: www.empa.ch/analytik

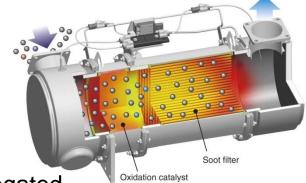




Theme for this VERT Forum



- Diesel Gate
 - Loss of reputation of Diesel Engines
 - High gap between NOx emissions and homologated



Consequences

EU: conformity factors for real-world emission close to regulation limits

Status

- Diesel deNOx made progress but still behind DPF
- Particle problem addressable with VERT filters
- deNOx filter still an open challenge



Program







9:15

9:30

9:45

8:00	Entrance and Reception
9:00	Welcome
	D. Bleiner, Empa

9:05 Welcome President, VERT

9:10 Introduction of new VERT members
V. Hersel, VERT





The VW Scandal — VERT involvement, conclusions and actions A. Mayer, TTM

Emission control technology for nonroad-engines F. Jaussi, LIEBHERR



RESEARCH NEWS

Research on petrol engine particle emissions J. Czerwinski, UASB

10:00 Chemistry of the NOx trap technology N. Heeb, Empa



10:30 Coffee Break

11:00 Problems and solutions with Ad Blue injection P. Dimopoulos, Empa

TECHNOLOGY NEWS
New membrane filter concept for marine engines T. Lutz, ETH
Buses and coaches Euro IV+DPF for
high sulfur fuel in Iran J. Galvarro, SCANIA
Commercial vehicles Euro IV + DPF for
high sulfur fuel in Iran
A. Akbarzadeh, MAYAN-FUSO
New SCR-technology
H. Middelmann, TWINTEC
Cleaning plugged DPFs
C. Hochstein, TUNAP
Lunch and Coffee
NEW VERT RETROFIT PROJECTS
AND EMERGING MARKETS
DPF-retrofit and DPF first fit for all
new diesel vehicles in Iran M. Doozandegan, VERT Iran
DPF-retrofit in Israel – countrywide retrofit
in two LEZ
V. Hensel, VERT
DPF-retrofit projects and policies in Latin America
A. Mayer, TTM
DPF-retrofit projects and policies in China

14:30 DPF-retrofit for construction in Berlin and other German cities V. Hensel, VERT 14:45 DPF-retrofit for construction in Paris D. Bemer 15:00 Coffee Break LEGISLATION AND QUALITY ASPECTS 15:45 NPTI with high priority and urgency international VERT-project A. Mayer, TTM 16:00 Software and hardware manipulation a flourishing market V. Hensel, VERT 16:15 REC-VERT, no longer a legal conflict? A. Mayer, TTM 16:30 BAT emission legislation worldwide V. Hensel, VERT 16:45 VERT Road Map 2017, white spots = new VERT-BAT application fields V. Hensel, VERT 17:00 Closing Remarks President, VERT



Project Partners

