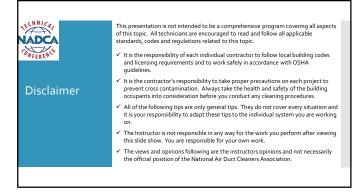
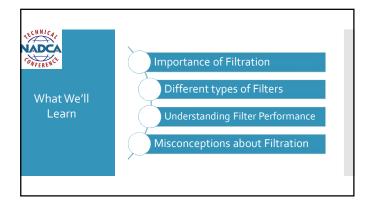
The Impact of Filtration in HVAC Systems Cryptol O 2011 MACA, Allegirs Financel Ropari of the publication may be reproduced or distributed by any mean, electronic or mechanical, including photocopy, recording, or any their terminocity contracts to come from the publication may be reproduced or distributed by any mean, electronic or mechanical, including photocopy, recording, or any their terminocity contracts to come from the publication.

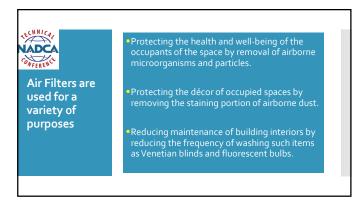
Presenter		SICILAN MISIA? SICILAN MISIA? Market bonk crabed Jan 1916. Widograde Crewmon died 3 mt. 5
	Tom Justice	

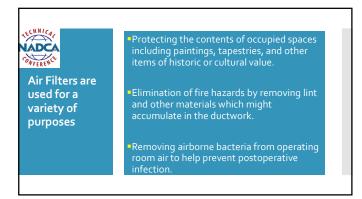


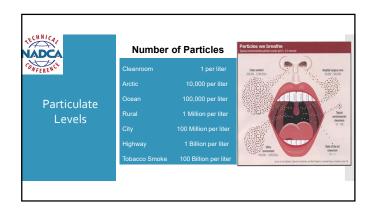


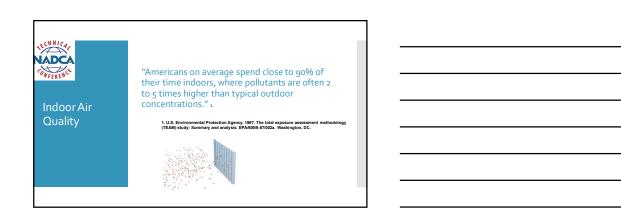


Air filtration supplies the means to obtain the level of particulate cleanliness required by any definition of "air conditioning."











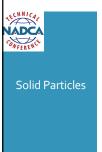
Each Day we....



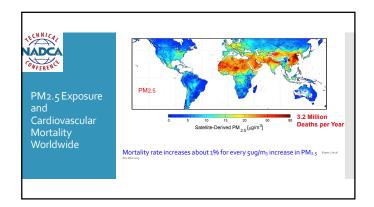
- Eat roughly 1 kg of
- food.
 Drink about 2 kg of liquids.
 Breathe 15 kg of
- air.....
- ...and inhale more than 25 million particles with each breath.

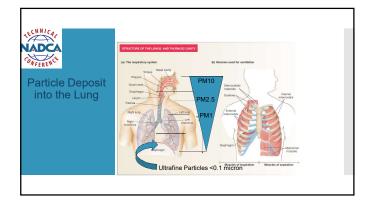


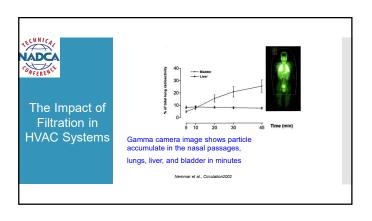




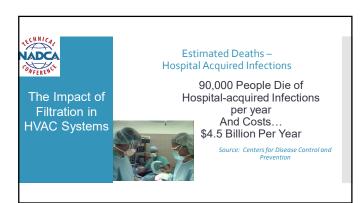


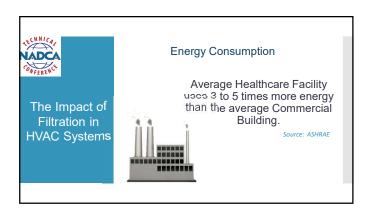














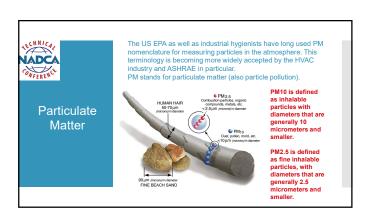
Energy Consumption

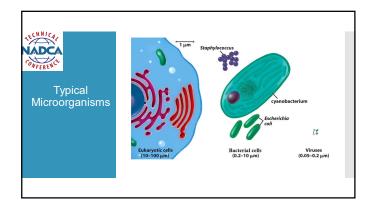
More than 2/3 of the total energy consumed by Healthcare facilities is dedicated to maintaining climate control and IAQ.

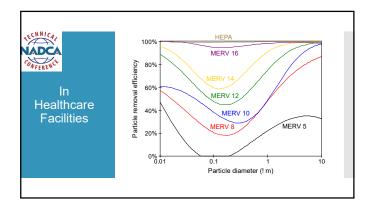
Source: ASHRAE

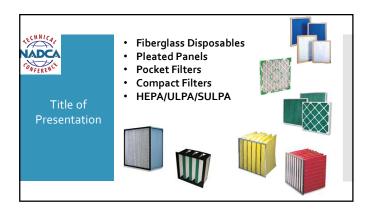


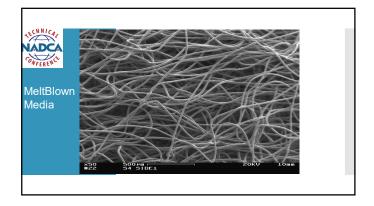
- The Static Pressure Drop across a filter increases as it "LOADS".
- The Efficiency of a mechanical filter increases as it loads with dust.
- Typically, the higher the efficiency of a square foot of media, the higher the static pressure drop.
- Charged medias almost always exhibit a lower pressure drop for similar efficiencies.
- Charged media filters almost always exhibit a loss of charge and a corresponding drop in efficiency.

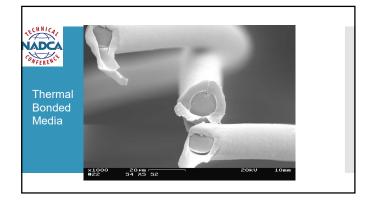


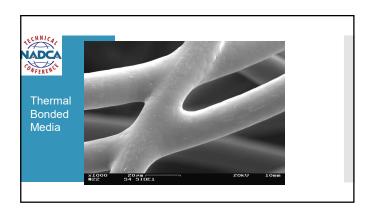


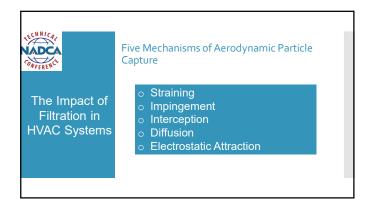


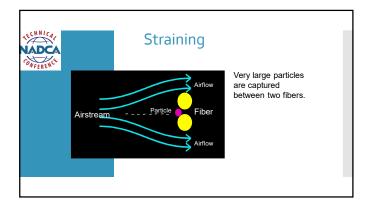


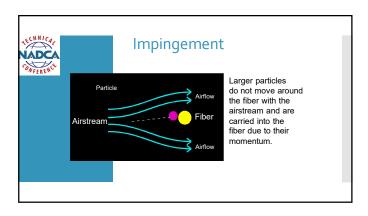


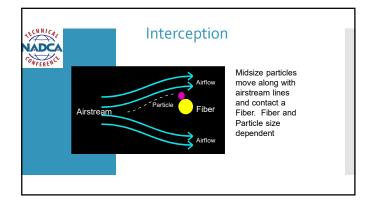


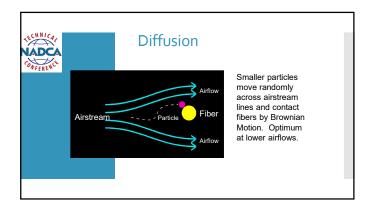


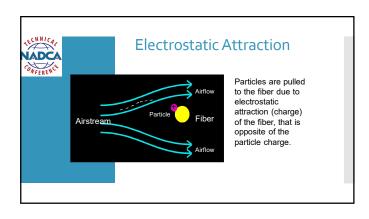


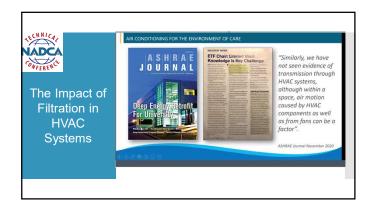


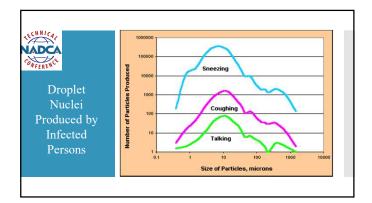


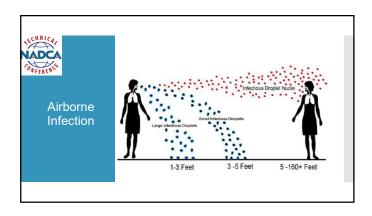


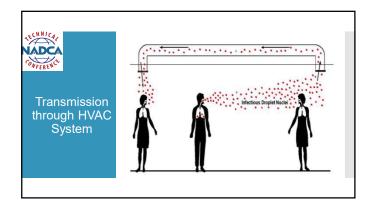


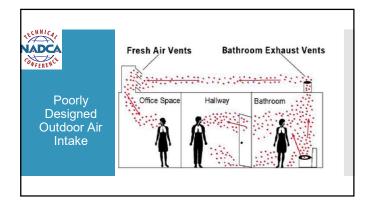


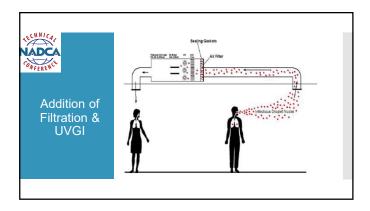


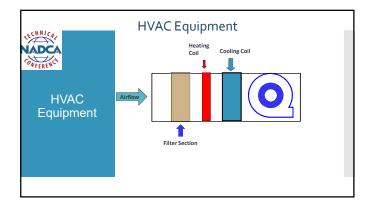








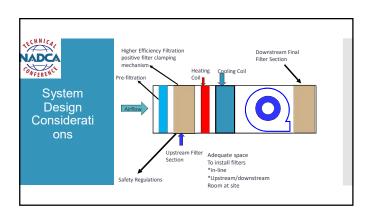


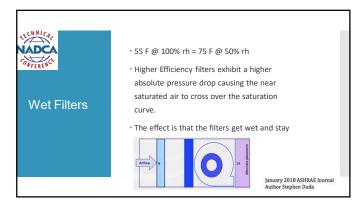


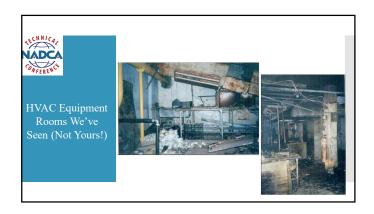


Today

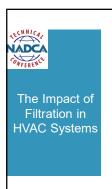
- Protect equipment from microorganism growth
- •Clean air of airborne microorganisms that can cause infection
- Remove potential for crosscontamination person-to-person
- Prevent contaminant/odor introduction













Filter Gap





Filter Gap





Installation Error







Poor Installation





Incorrect Filter Selection





Filter unsecured



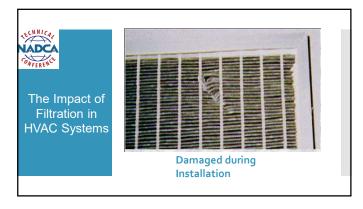


Improper Spacing





Missed on Change List



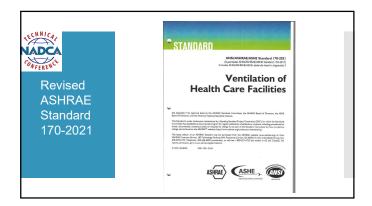


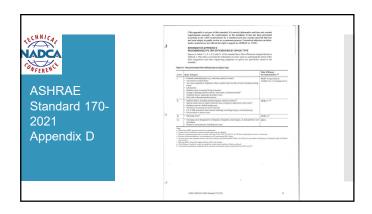


- 51 million people occupy school buildings each school day (1 in 6)
 - 2.3 million teachers
 - 126,000 administrators
 - 600,000 support staff
- 110,000 schools
 - 85,000 public
 - 25,000 private











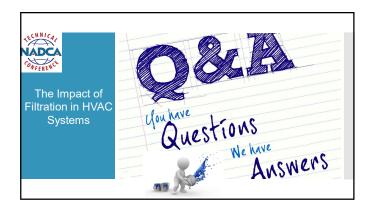


Conclusion

.....filters are one part of the complex residential environment and their performance can't be extrapolated from laboratory tests alone.

Jeff Siegel, University of Toronto





ONFERENCE		
The Impact of Filtration in HVAC Systems	 Tom Justice tjustice@zenefiltration.com 919-740-6308 	

Thank you for Participating!

