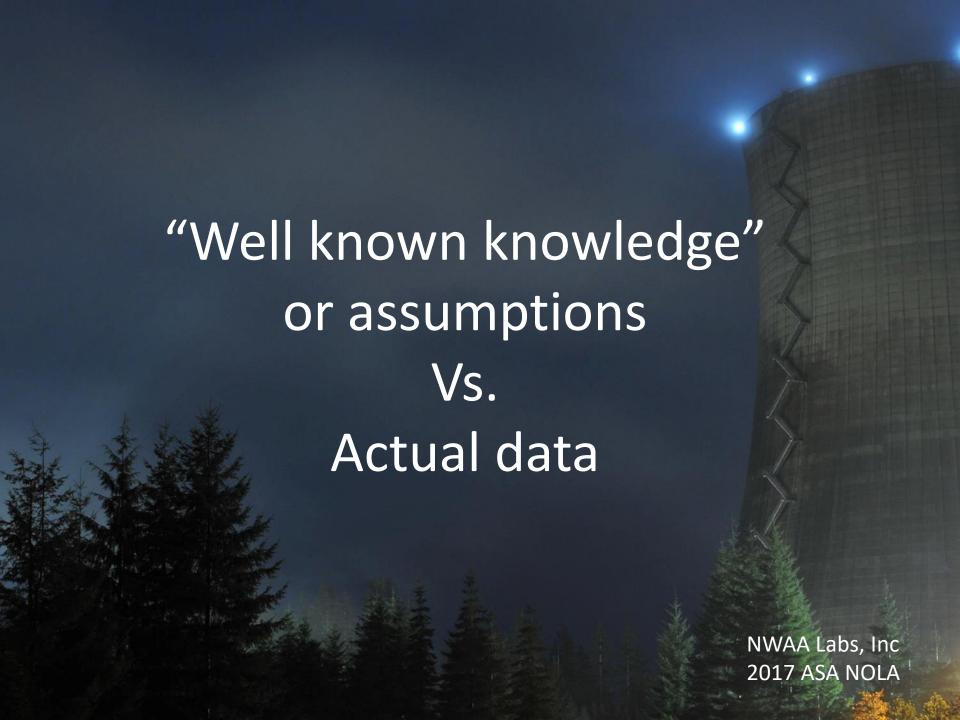
The misunderstandings about what can be measured and the newest ideas of how to perform these measurements.





A coefficient is not a percentage!!!!

0.9 absorption coefficient is NOT 90% absorption!!



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Myth: We can measure absorption

Fact: We cannot measure absorption directly.

We measure the differences in the reverberation time in a reverberation room and use that to determine the amount of absorption needed in the room to effect that change.

Myth: Acoustics is a "settled" branch of physics

Fact: There is fundamental research going on today and new facts are being written daily that are as basic as Sabines work

Myth: Baffles have twice as much absorption when both sides are exposed to the room

Fact: Baffles measured have an average of 1.2-1.3 times more absorption when hung in a room

Myth: Baffles have effect depending on their arrangement. i.e. Parallel, Boxed, Herring bone and others.

Fact: None of these makes any significant difference to the absorption of a room.

The spacing between individual units can be used to increase the real absorption of the units

Myth: Wall mounted panels that are spaced off of the walls will increase their low frequency absorption as the space behind increases.

Fact: This is only partially true. The low frequency absorption only increases when the spacing from the wall does not exceed 1 inch. The effect disappears after 1 inch. This only applies to unimpeded airspace.

Myth: BIG ONE!! Absorption is controlled by the size (area) of the absorber. $\alpha = A/S$ or $A=\alpha * S$

Fact: This is not true at all.

Previous presentations have shown this to be the case.

The ratio of perimeter length to the area and spacing between units are the controlling factors.

I apologize if this is YOUR Ox that has been gored



Acousticians vs "Them"



Thank you for your attention. If you wish more information on this subject please contact me at 253-973-1018 or at:

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