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Volume 8 - Winter 2014

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This Issue of Windwords

Welcome to the Winter 2014 issue of 'Windwords'. In this issue you will find the following topics...

Photo Contest - More news and information about our latest Photo Contest.

New Websites of Interest - New and Noteworthy articles related to Science & Technology.

For The Record - Results of our in-house Comparison Test between an orthogonal and a non-orthogonal sonic anemometer.

Just The Facts - How good is the temperature you are getting from your sonic anemometer?

For the Fun of it - HA HA HA HA HA HA...!

For those of you who have just received your first copy of Windwords - we invite you to take a look at some previous issues. The Windwords Archive can be found on our website: www.apptech.com/windwords.html

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Photo Contest!



Our photo contest will be ending at the end of October and we will then have a winner. The winner will be notified at that time, and then everyone else will get it in our next issue of Windwords.

If you're quick, there's still time to get your entry to us. Send your photo to:

Just The Facts



How good is the temperature you are getting from your sonic anemometer?

The value of your temperature output is only as good as the numbers used in the calculation. You also have the ability to improve it when you know the humidity in which you are operating.

The ATI sonic anemometer allows the operator the ability

photocontest@apptech.com.

For The Record...



If you have been following Windwords for the past few issues, you know we have mentioned a couple of papers that talked about the comparison of the Orthogonal Sonic Anemometers to the Non-Orthogonal Sonic Anemometers. We even put in a paper that covered some of the effort we were performing between our "K" probe and our "A" probe, over the past summer (2014).

Results of the ATI testing are now complete and have generated three papers in total, which we originally put on our website (and are still there), but we have also combined them into a single document. This document will give you some background, and a possible solution, on the problems associated with the non-orthogonal sonics.

If you are interested in understanding the intercomparison of an orthogonal and non-orthogonal sonic anemometer, the single document, titled: "Flow Distortion Errors in a Non-Orthogonal Sonic Anemometer", is now available at:

www.apptech.com/application-notes.html (at the bottom of the page).

or [click here](#) to download the pdf directly.

to perform the calibration of the instrument, and control the accuracy of the temperature data that is used for that calibration. It also allows you to enter the value of humidity, into the equation, if you know the value of humidity (the needed factor) during the test you are performing.

You are probably aware that the NIST has made some changes lately to the atmospheric numbers used in calculating the temperature. ATI uses the latest NIST values for the atmosphere, when doing the calibration in our latest revision of the sonic software.

The instrument also has a command that allows the operator to enter the RH value at the time of the test. When the appropriate numbers are use for calibration and during the test, the ATI sonic can give you a temperature, accurate to $\pm 0.05^{\circ}\text{C}$.

For the Fun of it!



QUOTATIONS

Goodwill is the one and only asset that competition cannot undersell nor destroy. - Marshall Field

It is not the employer who pays the wages, employers only handle the money, it is the customer who pays the wages. - Henry Ford

Everybody loves success, but they hate successful people. - John McEnroe

If you aren't fired with enthusiasm, you will be fired with enthusiasm. - Vince Lombardi

Never insult an alligator until you've crossed the river. - Cordell Hull

Never accept your dog's admiration as conclusive evidence that you are wonderful. - Ann Landers

If you tell people where to go, but not how to get there, you'll be amazed at the results. - General George S. Patton

You can observe a lot just by watching. - Yogi Berra

New Websites of Interest



Introducing "Kid Weather"

A true weather app for kids designed by a 6 year old boy (and his meteorologist dad). Power packed with real time weather conditions, forecasts, science and fun facts about the weather, plus it is interactive , making it fun for the kids. This includes math and science with S.T.E.M. in mind to make parents and teachers happy as well.

The link to this site is: www.kidweatherapp.com

Weatherscapes

Weatherscapes, a website by Harald Edens is another website that we recommend visiting. This site specializes in weather photography, such as: lightning, clouds, sky etc....

The link to this site is: www.weatherscapes.com

A Limerick

Those who live with things electronic
Know that they're often demonic.
Insidious quirks can muck up the works
And give you an ulcer that's chronic.

Windwords Archive

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www.apptech.com/windword

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