



Volume 9 - Summer 2015

This Issue of Windwords

Welcome to the Summer 2015 issue of 'Windwords'. In this issue you will find the following topics...

Photo Contest - and the winner is...

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

For The Record - Wind Plume Thermodynamic Structures During Low-Intensity Subcanopy Fires.

Just The Facts - Info about our NEW DataLogger... (coming soon!)

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

Do you have a special application that requires a wind velocity measurement, but the off-the-shelf sonic anemometers don't physically fit your application? Call the ATI factory, we have no problem adapting and tailoring our sonic technology to your application.

Photo Contest!



Our photo contest has ended and we have a winner. The winner has been notified and will receive an upgrade to our latest electronics for one of his ATI Ultrasonic

Just The Facts



COMING SOON - Our long awaited DataLogger!

For those of you aware of our product line, you know about the DataPacker we currently provide. This instrument can synchronize all of your ATI sonics together and also synchronize them with any analog sensors you

Anemometers. And now the winner is...



San Jose State University!!! They proved that our Sonic will operate in extremely adverse conditions! They have measured 250 degrees C so far.

You can see and read about the photo on our [Photo Contest Page](#) on our website.

For The Record...



Wind Plume

Thermodynamic Structures During Low-Intensity Subcanopy Fires

This paper presents observational results of wind and plume thermodynamic structures measured during low-intensity subcanopy fires. In-situ meteorological data were collected during the two experiments in the Calloway Forest in North Carolina during the early spring 2010 and winter 2011. Plume updraft velocities were observed during the subcanopy fires. A maximum updraft velocity and maximum temperature were recorded at the canopy top due to a head fire. Negative vertical velocities observed within the canopy were associated with cooler air temperatures relative to warm smoke plume temperatures during fire passage at the towers. Increased convection due to the head fire resulted in increased downward transport from above the canopy to the surface.

To find out more about this, click on the link below to go to the Science Direct Website.

[Science Direct Website](#)

New Websites of Interest

might have at the same location. It then outputs a packet of data that were all taken during the same time period. For more details, check out our web site under Data Collection.

This instrument is being upgraded and will soon be a full DataLogger/DataCollection/DataPacker device. The current set of functions, some of which are mentioned above, will continue to be provided, but the new revision will now have the following:

- Higher resolution A/D converter for a better analog range of inputs
- Analog inputs range from 0 to +/-10V
- Collect data from other digital instruments, not just ATI Sonics
- Ability to time shift samples for instruments with sampling delays
- Faster baud rates and faster operation than before
- New Sync Trigger Mode for faster sampling
- Allow the operator to select the previous sample if one sample is missed
- Customizable Missing Data Outputs
- A battery backed-up RT clock to time-tag the data
- Be capable of collecting and storing the data using a removable SD Card
- Ethernet Interface for Network Usage
- Can expand input capabilities by interconnecting multiple units
- Field upgradable firmware through serial port

For the Fun of it!

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"But to be fair, there's a fifty percent chance of just about anything."

'More Words of Wisdom'

Pro is to con as progress is to Congress.

There are three ways to get things done: do it yourself,



This time we would like to invite you to have a look at:

[Space.com](#)

They have a great article on the discovery of a giant black hole near the beginning of our universe.

This website contains a lot of information about other areas of space exploration as well, including a skywatching guide, webcasts, the Mars Rover and many photos and videos.

This site is definitely worth looking at...

Have you ever checked out NEON?

['National Ecological Observatory Network'](#)

If you haven't as yet, it might be of interest. It was started back in the late 20th century as an instrument to advance the ability of scientists to examine and understand the interactions between life and the environment, but wanted to take in the entire continent.

Since then hundreds of scientists and engineers have contributed their expertise to plan, design and operate this grand instrument. A Telescope Trained on Earth.

Windwords Archive

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hire someone, or forbid your kids to do it.

Duct tape is like the Force. It has a light side, a dark side, and it holds the universe together.

The new Congressmen say they're going to turn the government around. I hope I don't get run over again.

It is impossible to make anything foolproof because fools are so ingenious.

About the time you make ends meet, somebody moves the ends.

I used to think I was indecisive, but now I'm not so sure.

The brain is a wonderful organ: it starts working the moment you get up in the morning, and does not stop until you get to work.

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