



Facing the reality of unprecedented wildfires across the western United States, researchers at the New Zealand Forest Research Institute Limited, known as Scion, are actively studying how fire spreads to better understand how to respond and prepare for this growing and destructive trend.

Theirs is an international collaborative effort uniting the resources of Scion, the Wildfire Interdisciplinary Research Center and the Fire Weather Research Laboratory at San Jose State University, the University of Canterbury, and the Missoula Fire Lab to test a theory about how fire spreads—predominantly by radiation or convection.

To help understand the scales of turbulence that are impinging upon the fire, as well as the turbulence the fire itself is creating, the team deploys sonic anemometers on towers throughout the research burns. These sonic anemometers play an important role in enabling the researchers to look at large scale atmospheric circulation, boundary layer turbulence, as well as in-canopy turbulences, and finally, the turbulence that the fire itself generates.

And what sonics do they rely on?

Dr. Tara Strand, General Manager Forests and Landscapes, at Scion, responds, *"We have pushed sensors to their maximum limits, and one manufacture stands out as our sonic-of-choice: Applied Technologies, Inc. (ATI)."* Strand further elaborates, *"Because of the design of ATI's sonics, Herb's units worked all the*

way up to 240°C. All other sonics we have tested would melt at say approximately 100°C. We've tested them all and the only sonics capable of accurately measuring fire turbulence are ATI's. They remain the only sonics able to handle the heat, without a doubt."

Learn more about this interesting research [here](#).



PRODUCT SPOTLIGHT:

High-Speed Temperature Probe

If your application requires high-speed, high-resolution, and highly accurate temperature readings, we have the temperature probe for you; the **SHST/1K**. As you know, temperature is dependent upon the Relative Humidity (RH) of the air being measured. Our High-Speed Temperature Probe enables you to enter the RH value for the air being measured to get an accurate measurement.

Our High-Speed Temperature Probe provides quick response temperature measurements for air, or a variety of gases. Its unique design encases all the electronics within the probe bar, and the transducers are completely sealed, making this temperature probe ideal for tower-mounted deployments capable of withstanding even the most hostile environmental conditions.

Robust, customizable, and easy to deploy.

Interested in learning more about our High-Speed Temperature Probe?

Click [here](#) to download our data sheet and see all the features this probe has to offer.



Need Even More Accurate Temperature Readings?

While our High-Speed Temperature Probe delivers accurate readings based on the RH value you input, we offer an enhancement for those users who want a more automated approach. The **RH-101** option automatically keeps the temperature calculation up-to-date with any analog RH changes to the probe. **RH-101** is a modification to both the probe's electronics and software. Included with the **RH-101** option is the **HMP60** RH sensor which provides the necessary RH readings to the sonic.

Interested in learning more, or obtaining a personalized quote, click [here](#).

Already have an RH probe? Let us know the manufacturer and model number and we will let you know if that unit is compatible with our High-Speed Temperature Probe.

Just For Laughs

FROM THE DAYS WHEN INSULTS HAD CLASS

A member of Parliament to Disraeli:

"Sir, you will either die on the gallows or of some unspeakable disease".

Reply from Disraeli:

"That depends Sir, whether I embrace your policies or your mistress".

William Faulkner about Ernest Hemingway:

"He has never been known to use a word that might send a reader to the dictionary".

George Bernard Shaw to Winston Churchill:

"I am enclosing two tickets to the first night of my new play; bring a friend if you have one".

Reply from Winston Churchill:

"Cannot possibly attend first night, will attend second... if there is one".

Groucho Marx:

"I've had a perfectly wonderful evening, but I'm afraid this wasn't it".

May West:

"His mother should have thrown him away and kept the stork".

Mark Twain:

"I didn't attend the funeral, but I sent a nice letter saying I approved of it".

Oscar Wilde:

"Some cause happiness wherever they go; others whenever they go".

Billy Wilder:

"He has Van Gogh's ear for music".

Moses Madas:

"Thank you for sending me a copy of your book; I'll waste no time reading it".

Samuel Johnson:

"He is not only dull himself; he is the cause of dullness in others".

Forrest Tucker:

"He loves nature in spite of what it did to him".

John Bright:

"He is a self-made man and worships his creator".

Irvin S. Cobb:

"I've just learned about his illness; let's hope it's nothing trivial".

Andrew Lang:

"He uses statistics as a drunken man uses lamp-posts... for support rather than illumination".



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