



Volume 10 Issue 9 - September 2021

Director's Message



The month of September is a month of transition for many Americans.

Generally recognized as the end of the summer travel season, early September marks the beginning of NFL and college football seasons, the start of the school year, and for some, the last opportunity to sport

white clothing. Most of these traditions are centered around the final major holiday of summer, Labor Day.

With its origins dating back to the 19th century, Labor Day is a celebration of the American labor movement and is dedicated to the social and economic achievements of workers. It constitutes a yearly national tribute to the contributions workers have made to the strength, prosperity, and well-being of their country.

Once celebrated with parades and speeches, Labor Day is now observed with picnics and family gatherings as many Americans take advantage of a long weekend. Wherever your travels take you this holiday, take a moment to reflect upon the contributions made by workers that have helped to shape our country and continue to keep it strong.

School's Open - Drive Carefully

By early September, over 55 million children across the United States will head back to school. With 13 percent of those children typically walking or biking to their classes, drivers should be especially vigilant for pedestrians before and after school hours. The afternoon hours are particularly dangerous. Over the last decade, nearly one in four child pedestrian fatalities occurred between 3 p.m. and 7 p.m.



Launched in 1946, the American Automobile Association's 'School's Open – Drive Carefully' campaign was created as a way to help reduce child pedestrian fatalities and injuries. Here are several recommendations from AAA regarding ways drivers can help to keep kids safe:

- Slow down – Speed limits in school zones are reduced for a reason. A pedestrian struck by a vehicle traveling at 25 mph

Upcoming Courses

[Online Distance Learning](#)

[Level I Certified Infrared Thermographer®](#)

- Sep 6 - 10 Kuala Lumpur
- Sep 13 - 17 Tacoma
- Sep 27 - Oct 1 Las Vegas
- Oct 4 - 8 West Windsor
- Oct 18 - 22 Santa Fe
- Oct 25 - 29 Brisbane
- Oct 25 - 29 Edmonton
- Nov 1 - 4 Saskatoon
- Nov 8 - 12 Melbourne
- Nov 8 - 12 Tempe
- Nov 8 - 12 Winnipeg
- Nov 15 - 18 Toronto
- Nov 22 - 26 Kuala Lumpur
- Nov 22 - 26 Ottawa
- Nov 29 - Dec 2 Moncton

[Level II Certified Infrared Thermographer®](#)

- Sep 13 - 17 West Windsor
- Oct 4 - 8 Kuala Lumpur
- Nov 22 - 26 Melbourne

[Level III Certified Infrared Thermographer®](#)

- Sep 20 - 22 West Windsor

[Full 2021 Schedule](#)

is nearly two-thirds less likely to be killed compared to a pedestrian struck by a vehicle traveling just 10 mph faster.

- Come to a complete stop – Research shows that more than one-third of drivers roll through stop signs in school zones or neighborhoods. Always come to a complete stop, checking carefully for children on sidewalks and in crosswalks before proceeding.
- Eliminate distractions – Research shows that taking your eyes off the road for just two seconds doubles your chances of crashing. Children can be quick, crossing the road unexpectedly or emerging suddenly between two parked cars. Reduce risk by not using your cell phone or eating while driving.
- Watch for bicycles – Children on bikes are often inexperienced, unsteady, and unpredictable. Slow down and allow at least three feet of passing distance between your vehicle and a bicyclist.

Lastly, always maintain a safe distance from a stopped school bus. Be on the lookout for children boarding or exiting school buses.

[More Information](#)

Checking IR Equipment Calibration



Infrared radiometers must be within calibration in order to accurately measure temperatures. Traditionally, thermographers periodically send their equipment to the manufacturer for calibration. For some, this process can take several weeks and can be rather expensive.

As an alternative, savvy thermographers can check the calibration of their instrument quickly and easily using some commonly available items.

In order to check infrared radiometer calibration, you will need at least two targets, each with a known temperature and emittance. A simple solution is to use a container of ice water and a container of boiling water with a coupon of Scotch PVC electrical tape affixed to the container's exterior surface. The size of both targets must exceed the spot measurement size of the instrument being calibrated. Container temperatures may be ascertained with a thermometer, thermocouple, or contact radiometer.

Once targets have been prepared, use the following procedure:

- Turn radiometer on and allow it to stabilize to room temperature
- Set radiometer perpendicular to target surface
- If possible, set radiometer inputs for distance, humidity & air temperature
- Aim, focus and calculate Reflected Temperature
- Set radiometer emittance control. Scotch 191 tape = 0.97 LW or SW. Ice = 0.98 LW; 0.93 SW
- Using subject radiometer, measure temperature of target. For ice water, measure temperature of ice cubes. For hot water container, measure tape coupon.
- Compare radiometer's value with contact temperature reading for each target to ensure that radiometer is within spec

Upcoming Conferences

Infraspection Institute invite you to see us at the following upcoming conferences. Be sure to stop by and say Hello!

[Reliable Plant](#)

October 19 - 21, 2021
Louisville, KY

[SMRP Conference](#)

October 25 - 28, 2021
Saint Louis, MO

[IR/INFO Conference](#)

January 16 - 19, 2022
Orlando, FL

[Thermal Imaging Conference](#)

September 19 - 22, 2022
South Lake Tahoe, NV

Links of Interest

[IRINFO.ORG](#)

[The RAM Review](#)

[TI-Reporter.com](#)

[IRFeverScreen.com](#)

A heated blackbody simulator can be used to check instrument calibration at higher temperatures. Because radiometer calibration is not user-adjustable, it will be necessary to return it to the manufacturer should you find your instrument is out of spec.

[More Information](#)

Early Registration Bonus for IR/INFO Exhibitors

Infraspection Institute are pleased to announce an early registration bonus for exhibitors at our annual IR/INFO Conference. Exhibitors that register and pay for their booth prior to September 15 are eligible to bring a second person at no additional charge. Valued at \$595, this bonus provides full conference access and conference proceedings.



Now in its 32nd year, IR/INFO is the original Advanced Infrared Training Conference, Technical Symposium, and Technology Expo. IR/INFO features four days of networking, learning, and fun in a professional, yet relaxed, family atmosphere. IR/INFO is scheduled for January 16 – 19, 2022, in Orlando, FL.

IR/INFO is a must-attend event for all manufacturers and distributors of infrared equipment, condition-based monitoring tools and services, reporting software, and those who provide products or services of interest to thermographers.

[More Information](#)



Turn Over a New Leaf



[Become an Infraspection Institute Master Thermographer®](#)

