

Volume 12 Issue 7 - July 2023

Director's Message



On the 4th of July, Americans will celebrate Independence Day – a national holiday that is distinctly our own.

Independence Day celebrates the adoption of the Declaration of Independence on July 4, 1776, by the Second Continental Congress. By declaring that the thirteen American colonies regarded themselves as a new nation and no longer part of the British Empire, the United States of America was born. Already at war with Great Britain, it would not be until the end of the Revolutionary War in 1783 that the survival of the United States was assured.

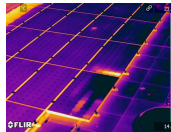
Americans often celebrate Independence Day by hosting or attending picnics or barbecues with friends and relatives. Many attend patriotic parades and ceremonies during the day and public fireworks displays in the evening. American flags and decorations of red, white, and blue are found everywhere.

As you celebrate the holiday, I would invite you to take a moment to reflect upon the genesis of our nation and the principles upon which it was founded. Take a moment to reflect upon the freedoms that you enjoy along with the sacrifices of those who made such freedom possible and those who help to ensure its continued existence.

May you enjoy a safe and Happy Independence Day!

IR Inspections of Photovoltaic Systems

With interest in renewable energy at an all-time high, photovoltaic systems have become a common sight worldwide. Infrared inspections can be used for quality assurance inspections of new installations or to monitor the performance of existing ones.



Photovoltaics is a method of converting solar energy into electricity. A photovoltaic system uses an array of several solar panels, each of which is comprised of several solar cells. When exposed to sunlight, the solar cells produce direct current electricity. This DC power can then be converted to AC power for local use or to supply a power grid.

Defective cells or wiring within solar panels can cause hotspots that compromise the power output of the panel. Such hotspots are readily detected with a thermal imager while the panel is exposed to sunlight. Performed from either the topside or underside of panels, infrared inspections provide the most cost-effective method for detecting defects within installed panels.

When performing an infrared inspection of an installed PV system, keep the following in mind:

- Determine best vantage point for the IR inspection
- Perform inspections on a sunny day when winds are calm
- Qualitatively inspect panels looking for inexplicable hot or cold spots
- Be sure to include the electrical conductors and distribution equipment that connect solar panels to the electrical system

Upcoming Courses

[Online Distance Learning](#)

[Level I Certified Infrared Thermographer®](#)

- Jul 10 - 14 Salt Lake City
- Jul 10 - 14 Houston
- Jul 17 - 21 West Windsor
- Jul 24 - 28 Portland
- Jul 24 - 28 St. John's
- Aug 7 - 11 Colorado Springs
- Aug 14 - 18 Kuala Lumpur
- Aug 14 - 18 Melbourne
- Aug 16 - 18 Melbourne *
- Aug 21 - 25 Cheyenne, WY
- Aug 21 - 25 Saskatoon

* Flexible Learning

[Level II Certified Infrared Thermographer®](#)

- Sep 11 - 15 West Windsor
- Sep 11 - 15 Kuala Lumpur
- Nov 21 - 25 Melbourne
- Nov 28 - Dec 2 Trinidad

[Level III Certified Infrared Thermographer®](#)

- Sep 18 - 20 West Windsor

[Full 2023 Schedule](#)

Upcoming Conferences

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

[NECA](#)

Lastly, make certain to observe all safety precautions during the infrared inspection especially when working from an aircraft or an elevated vantage point. Personnel should also take care to avoid electrical hazards when working near exposed, energized electrical conductors.

[More Information](#)

Onsite Training



specific needs!

If you have four or more employees who need infrared training and certification, an on-site training class may be right for you. On-site training classes eliminate employee travel expenses and can be scheduled at your convenience. Best of all, on-site training can be customized to meet your company's

Since Infraspection Institute do not manufacture or sell infrared equipment, our courses are presented without marketing hype and are relevant to all brands of thermal imagers. Our training courses are taught using a combination of dynamic multi-media presentations, hands-on demonstrations, and one-on-one interaction with students, all of which are designed to maximize each student's learning experience.

Call us today for a free quotation and let us show you how affordable on-site training can be.

[More Information](#)

Call for Speakers for IR/INFO 2024

Infraspection Institute are pleased to announce that our annual Advanced Training Conference, Technical Symposium and Technology Expo, IR/INFO 2024, will be held January 14 - 17, 2024 in Orlando, FL.



Now in its 34th year, IR/INFO features four days of networking, learning, and fun in a relaxed, yet professional, family atmosphere. We are presently accepting papers and presenters for IR/INFO 2024. Invited topics include, but are not limited to: safety, emerging applications, building sciences, related NDT, case histories, as well as tips and tricks.

Presentations are typically 20-25 minutes with 5 minutes for questions and answers with the audience. All papers and presentations will be published in the IR/INFO Conference Proceedings. The deadline for abstract submissions is July 31.

[More Information](#)

Thermography's Highest Honor



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

September 29 - October 2,
2023
Philadelphia, PA

[SMRP Conference](#)

October 16 - 19, 2023
Orlando, FL

[IR/INFO Conference](#)

January 14 - 17, 2024
Orlando, FL

[NETA PowerTest Conference](#)

February 26 - March 1, 2024
Dallas, TX

[NFMT](#)

March 12 - 14, 2024
Baltimore, MD

Links of Interest

[IRINFO.ORG](#)

[TI-Reporter.com](#)

[NORMI.TV](#)

[A-Rent](#)

