



Volume 14 Issue 4 - April 2025

Director's Message



The harshness of this past winter is likely to be remembered for quite some time. Noteworthy, too, is the unseen toll that winter has taken on many commercial buildings. Left undetected, the damage caused by winter's fury can lead to premature roof failure. Fortunately, an infrared inspection of your roof can detect

evidence of problems before they get out of hand.

Performed under the proper conditions with the right equipment, an infrared inspection can detect evidence of latent moisture within the roofing system often before leaks become evident in the building.

The best candidates for infrared inspection are flat or low slope roofs where the insulation is located between the roof deck and the membrane and is in direct contact with the underside of the membrane. Applicable constructions are roofs with either smooth or gravel-surfaced, built-up or single-ply membranes. If gravel is present, it should be less than 1/2" in diameter and less than 1" thick. All infrared data should be verified by a qualified roofing professional via core sampling or invasive moisture meter readings.

Infrared inspection of flat roofs and proper equipment selection are two of the many topics covered in all Infraspection Level I training courses. For more information or to obtain a copy of the [Standard for Infrared Inspection of Insulated Roofs](#), please call or visit us online.

Infrared Inspections of Lightning Arrestors

Lightning arrestors are a common feature in electrical distribution systems and are used to guard against voltage surges associated with lightning strikes on power or communications lines. Installed at strategic locations, lightning arrestors act as safety devices to provide a short circuit path that carries excess voltage to ground during a lightning strike.

Lightning arrestors are connected between a conductor and ground. In order to prevent a ground fault, lightning arrestors are engineered so that normal line voltage will not pass through the arrestor under normal conditions. While some lightning arrestors employ a simple spark gap, others consist of porcelain tubes that are filled with semi-conductive discs made of silicon carbide or zinc oxide. During a lightning strike, the resistance of the spark gap or

Upcoming Courses

[Online Distance Learning](#)

[Level I Certified Infrared Thermographer®](#)

- Apr 2 - 3 Melbourne *
- Apr 7 - 10 West Windsor
- Apr 14 - 17 Rosharon
- Apr 14 - 18 Kuala Lumpur
- Apr 21 - 25 Henderson
- Apr 28 - May 1 Perth
- Apr 30 - May 1 Perth *
- May 6 - 9 Kuala Lumpur
- May 12 - 15 Rosharon
- May 12 - 15 Adelaide
- May 14 - 15 Adelaide *
- May 19 - 23 Denver
- May 26 - 29 Kuala Lumpur
- May 26 - 30 Quezon City
- June 2 - 6 Reno
- June 9 - 12 Rosharon
- June 16 - 19 Kota Kinabalu
- June 23 - 27 Tempe
- June 23 - 27 Quezon City

* Flexible Learning

[Level II Certified Infrared Thermographer®](#)

- Apr 21 - 25 Quezon City
- May 5 - 9 San Jose
- May 12 - 16 Guatemala City

oxide plates is overcome and excess energy flows to ground.

If a lightning strike is sufficiently strong, lightning arrestors may be permanently damaged and begin to conduct electricity to ground full time. When this happens, the body of damaged arrestors will heat up allowing them to be detected with a thermal imager. The thermogram at right shows a typical defective lightning arrestor.



Properly functioning lightning arrestors should be uniform in temperature and close to ambient air temperature if they have not undergone recent solar loading. Individual arrestors should not have any pronounced hot spots across them. Working early in the morning, on cloudy days, or at night will help to eliminate solar loading which can hide defective arrestors. When performing your inspection, don't forget to check grounding connections for hot spots as well.

[More Information](#)

Onsite Training



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 specific needs!

Since Infrasppection 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](#)

Get a Free Listing in the International Directory of IR Thermographers

IRINFO.ORG recently announced the launch of the [International Directory of Infrared Thermographers](#).



An IRINFO.ORG exclusive, the Directory is a unique opportunity to get the recognition you deserve and showcase your services to those seeking to find and/or hire professional thermographers.

For a limited time, thermographers may get a FREE listing in the Directory. Applying for a listing may be done online and only takes a

- May 26 - 29
Melbourne
- June 9 - 12 West
Windsor

[Level III Certified Infrared Thermographer](#)

- Jun 16 - 18 West
Windsor

[Full 2025 Schedule](#)

Upcoming Conferences

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

[Vibration Institute](#)

August 6 - 8, 2025
Newport News, VA

[IR/INFO Conference](#)

February 1 - 4, 2026
Orlando, FL

[SMRP Conference](#)

October 6 - 9, 2025
Fort Worth, TX

[NETA PowerTest Conference](#)

March 2 - 6, 2026
Nashville, TN

Links of Interest

[IRINFO.ORG](#)

[TI-Reporter.com](#)

[Thermographer Directory](#)

[NORMI.TV](#)

[A-Rent](#)

few moments. Premium listings which include your telephone number and a link to your website are also available. Premium listings ensure that your name appears at the top of search results pages and are a great way to gain exposure for your company and increase sales.

[More Information](#)

Call for Speakers for IR/INFO 2026



Infraspection Institute are pleased to announce that our annual Advanced Training Conference, Technical Symposium and Technology Expo, IR/INFO 2026, will be held February 1 - 4, 2026 in Orlando, FL.

Now in its 36th 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 2026. 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](#)

Get the Recognition You Deserve



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