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Volume 7 Issue 7 - July 2018

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## Director's Message



For many people, the peak of Summer brings high temperatures to the workplace. For others, high temperatures in the workplace are an everyday occurrence. Understanding heat stress and its attendant safety challenges is crucial for those working in hot environments.

Heat stress is a physical hazard. It is caused by environmental conditions and results in the breakdown of the thermal regulating system of the human body. There are various degrees of heat stress. Each has its own unique symptoms.

The most common form of heat stress is heat exhaustion. Symptoms of heat exhaustion include dizziness, confusion, headaches, upset stomach, weakness, decreased urine output, dark-colored urine, fainting, and pale clammy skin.

If you think you are experiencing some form of heat stress, act immediately!

- Advise a co-worker that you do not feel well
- Move to an area away from the hot environment
- Seek shade and cooler temperatures
- Drink water (1 – 8 oz. cup every 15 minutes) unless sick to the stomach
- Have someone stay with you until you feel better

Before working in a hot environment, consider the type of work to be performed, duration of time to be spent in hot areas, level of physical activity, and other nearby hazards. Always use appropriate PPE and work together as a team.

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## Why GFCI Devices Appear Warm

When performing an infrared inspection of an electrical panel, you may notice that the phenolic bodies of Ground Fault Circuit Interrupters appear warm. This same condition may also be

## Upcoming Courses

### [Level I Certified Infrared Thermographer®](#)

- Jul 17 - 18 Kuala Lumpur\*
- Jul 23 - 27 West Windsor
- Jul 24 - 28 Montreal
- Aug 6 - 10 Kuala Lumpur
- Aug 6 - 9 Kalgoorlie
- Aug 13 - 14 Melbourne\*
- Aug 20 - 23 Sydney
- Sep 10 - 14 West Windsor
- Sep 10 - 11 Perth\*
- Sep 13 - 14 Brisbane\*
- Oct 8 - 12 Auckland
- Oct 22 - 26 West Windsor
- Oct 22 - 26 Kuala Lumpur

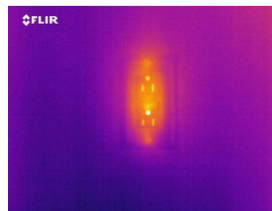
### [Level II Certified Infrared Thermographer®](#)

- Jul 23 - 27 Kuala Lumpur
- Sep 17 - 21 West Windsor

### [Level III Certified Infrared Thermographer®](#)

- Sep 24 - 26 West Windsor

observed on self-contained GFCI receptacles. This condition is usually due to the construction of the device itself.



In order to monitor the amount of current flowing through the supply and neutral conductors of a circuit, GFCI devices have small transformers built into them.

These transformers can cause the body of the GFCI to run several degrees warmer than ambient temperature. Depending upon the settings of your thermal imager, GFCI devices may show a marked contrast to their surroundings.

When inspecting a GFCI device, compare its thermal pattern to other similar devices under similar load. For GFCI breakers, be sure to inspect the load side connection at the GFCI device as well as the neutral bus bar connection for the subject breaker.

### [More Information](#)

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## Infraspection Online Store



The Infraspection Online Store is a vital resource for practicing thermographers. In addition to official Infraspection apparel, we offer training manuals, reference books and CDs, software, and thermal images. Infraspection Institute Certified Infrared Thermographers also qualify for free

downloads from the store.

Electronic documents such as standards, proposal templates, and the ASNT-Compliant Written Practice are available for immediate download upon transaction approval.

For your convenience, we accept Visa, MasterCard, American Express and Discover. Our secure servers ensure the safety and privacy of your transaction. As always, we do not sell or share our customer lists with other companies.

### [More Information](#)

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## Call for Papers for 30th Annual IR/INFO Conference

Infraspection Institute are pleased to announce that our 30th annual Advanced Training Conference, Technical Symposium and Technology Expo, IR/INFO, will be held January 20 – 23, 2019 in New Orleans, Louisiana. Now in its 30th year, IR/INFO features four days



\* Flexible Learning Course

### [Full 2018 Schedule](#)

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## Upcoming Conferences

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

### [Thermal Imaging Conference](#)

September 30 - October 3, 2018  
Myrtle Beach, SC

### [SMRP Conference](#)

October 22 - 25, 2018  
Orlando, FL

### [IR/INFO Conference](#)

January 20 - 23, 2019  
New Orleans, LA

### [Ultrasound World](#)

May 14 - 17, 2019  
Clearwater Beach, FL

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## Links of Interest

[IRINFO.ORG](#)

[NACBI](#)

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of networking, learning, and fun in a relaxed, yet professional, family atmosphere.

We are presently seeking papers and presenters for IR/INFO. 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](#)



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