

BUILD & PROTECT



Building Lightning Safe Communities to Save Lives & Protect Property



ULPA LPI Conference Countdown

Registration Closing Soon!

You won't want to miss the exciting speaker lineup, programs and workshops planned for the 2020 ULPA/LPI Conference.

LPI member company, Bonded Lightning Protection of Florida will serve as our industry host for the annual meeting, which will feature:

- * Build & Protect Workshop for A&E's & LPI Professional Division Members
- * Industry Updates & Reports
- * Education & Speaker Sessions
- * Breakout Workshops
- * LPI Certification & Testing Sessions
- * Networking Opportunities
- * Golfing & Social Events

The deadline for rooms and registration is **January 10, 2020**, so be sure to register and book your hotel reservations ASAP!

[Get the Conference 411](#)

2020 ULPA/LPI LIGHTNING PROTECTION CONFERENCE

Hurry, registration ends soon!

Hurry, registration closes soon for the 88th Annual ULPA/LPI Lightning Protection Conference at the Palm Beach Marriott Singer Island Beach Resort & Spa, February 12-15, 2020.



Frameworks for Resilient Design & Construction



LIGHTNING PROTECTION INSTITUTE

BUILD & PROTECT

Lightning protection frameworks for
resilient design & construction

Increased concern about the safety and economic toll of extreme weather and natural disasters has led politicians and policy makers to examine the topic of "resilience" or the ability to withstand a catastrophic event and recover quickly to previous status and functionality.

The frequency of lightning-caused losses in the built environment, coupled with science predictions of increased lightning activity associated with changing weather patterns, is prompting new attention regarding ways to mitigate the dangerous and costly consequences of lightning.

LPI's new white paper, *"Build and Protect: Lightning Protection Frameworks for Resilient Design and Construction"* addresses the important topic of including lightning protection in the built environment as a resilient design and construction performance measure. The paper also examines the role of NFPA 780 as a consensus-based lightning protection safety standard and risk assessment resource.

[Link to White Paper](#)



A Look Back at Recent Lightning Losses

Be aware, lightning happens EVERYWHERE!



Communities caught in lightning's line of fire

Despite being the weather threat that impacts the most people, most of the time and in most areas of the U.S., lightning remains an underrated risk.

By compiling a sampling of 2019 media reports that highlight lightning's far-reaching affect, LPI created an **infographic** to illustrate lightning's impact on people and property in every state of the U.S.

"As the media continues to share reports of costly lightning incidents and devastating home and building fires sparked by lightning, we are reminding property owners, builders, insurance providers and fire safety officials that these losses can be prevented when lightning protection systems are installed for structures," said Bud VanSickle, LPI executive director.

[See the Lightning Loss Report](#)



Building Lightning Safe Communities



Built for Beauty; Protected to Last.

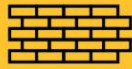
Entrusting your lightning protection system design and installation to a LPI-certified professional ensures a safe and effective system that won't compromise aesthetics.

When properly

installed, components such as strike termination devices, conductors and grounding are barely visible to the untrained eye. There are a number of design and installation measures that can be employed to make lightning protection even less noticeable.

Contracting with an LPI-certified professional will ensure attention to detail is met for every structure and roof type. Click [here](#) to locate and consult with a LPI specialist in your area.

How lightning enters a structure:



Through a direct strike that can ignite fires or explode roofing, brick, wood, mortar or concrete



Via roof projections like antennas, architectural ornaments, vent fans and satellite dishes



Through a strike to a chimney, dormer, cupola or metal roofing accessory



Via telecommunications, utility lines, and electronics



Via surges or side flash delivered through a nearby tree or pole



Through wiring, electronics, cable lines and data systems



Through irrigation systems, invisible fences, security systems and electric gates



Through metallic lines, piping or CSST gas piping

All of the above can create a pathway for lightning's extreme electricity and destructive energy.

Lightning: What are the Odds?

The earth experiences 100 lightning flashes per second and the U.S. alone has more than 40 million lightning strikes each year. Thunderstorms occur virtually everywhere and that puts just about **any** type of structure at risk to lightning damage.

Lightning can enter a structure in numerous ways, as illustrated in the above graphic. Since a single lightning strike is capable of introducing a chain reaction of destruction, the lightning protection system (LPS) design and installation needs to follow the guidelines of NFPA 780 to effectively address all aspects of this complex electrical hazard.

The design of the LPS must:

- 1) intercept the lightning flash (provide a preferred strike receptor)
- 2) conduct the current to earth
- 3) dissipate the current into the earth
- 4) create equipotential balance to prevent hazardous potential differences between the LPS, structure and its internal systems.

When considering all the factors associated with susceptibility, safety, and disruption, the cost of installing lightning protection is minimal as compared to the potential for loss and risk.

**Effort Provides Vital Gift of
LPS for African Schools**



LPI is supporting a life-saving initiative that is helping to provide the vital gift of lightning protection at Uganda schools.

Thanks to generous funding by the Ludwick Family Foundation (LFF) and volunteer efforts of lightning experts in the U.S. and South Africa, The African Centres for Lightning and Electromagnets Network (**ACLENet**) is installing lightning protection systems (LPS) at several model schools in Africa.

A "Lightning Protection Working Group" of international volunteers, which includes members from the U.S. based Lightning Safety Alliance (LSA) and LPI, meet by teleconference each week to direct aspects of the LPS design, materials selection and installation for the schools.

A recent **news release** highlights aspects of the project and LPI's supporting role in this international life-saving effort.



Streamlined Inspection Services

Seeking a trusted resource for independent, third-party lightning protection inspection and certification services? Look no further than the **[LPI-IP Lightning Protection Inspection Program](#)** and its new Online Application Portal.

In direct response to user feedback and input, LPI-IP's Online Application Portal has been improved to expedite and streamline the lightning protection system inspection application and certification process.

By providing one place to submit and view applications and supporting documentation (including image files, PDFs and as-built drawings), LPI-IP provides a user-friendly experience to save you time and trouble.

[Learn More](#)



CEU Credits Coming Your Way!

Florida architects, engineers, builders and planners will have an opportunity to learn about lightning protection, resilient building practices and blueprints for collaborative partnerships at the 2nd annual Build & Protect Workshop on Wednesday, February 12, 2020, at the Palm Beach Marriott Singer Island Beach Resort & Spa.

The workshop is part of LPI's recent initiative to provide A&E's and LPI Professional Division members with educational resources related to lightning protection system design, specification and quality assurance.

Contact **[LPI](#)** or visit the link below for details and information.

[Learn More](#)

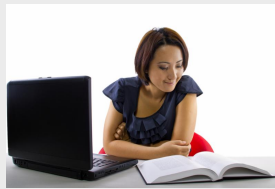


Connect with Us!

Following LPI on social media helps you stay informed about industry news and engaged with the lightning protection community.

Stay connected with us on social media by clicking the white social media icons in the grey circles below.

And be sure to use our "share" icons to post Build & Protect news on your social media outlets, too!



LPU Learning Options

What will you - and your employees learn in 2020?

At the [Lightning Protection University \(LPU\)](#), continual learning gives you the power to succeed in the lightning protection industry.

LPU helps aspiring and seasoned professionals expand their knowledge and strengthen their skills.

See what you can [learn from LPU](#) in 2020 to increase your skills in the lightning protection industry.



LPI Has Resources

LPI is the go-to resource for architects, engineers and building professionals in terms of lightning protection and quality assurance system requirements.

Check out our [A&E](#) tools for specification and Tech Letter guidance.

LPI provides the resources to help you help your clients protect their most important investments against the weather hazard that affects the most people, most of the time.

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