MORE POWER TO YOU

Improve the Reliability and Efficiency of Your Critical Infrastructure

September 24–25 | Dallas, TX

CriticalFacilitiesSummit.com
THE PREMIERE EVENT FOR ALL MISSION CRITICAL PROFESSIONALS

Join colleagues with key mission critical responsibilities including:

- Facility Managers
- Directors of Data Center Facilities
- Enterprise Facilities Managers
- Critical Environments Managers
- Directors of Engineering
- IT Managers
- Property/Asset Managers
- Facilities Engineers
- Data Center Managers
- Design Engineers
- Architects
- Construction Contractors
- Consultants
- Energy Managers
- Operations Managers
- Project Managers
- Security Managers

An Agenda Tailor-Made for Your Diverse Responsibilities

- New ways to reduce energy use
- How to prevent electrical issues that cause IT equipment problems
- Cost-effective ways to achieve a high reliability infrastructure
- New thinking on common backup power challenges
- Asset management strategy to enable compliance
- How new and existing data centers can speed response to emergency incidents

"The only conference for facility personnel that work in critical environments."
— Gary Reaves, Electrical Engineer Critical Facilities, BPA Bonneville Power Administration
<table>
<thead>
<tr>
<th>MONDAY, SEPTEMBER 23 (OPTIONAL)</th>
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<tbody>
<tr>
<td>ALL DAY</td>
</tr>
<tr>
<td>Data Center Energy Practitioner (DCEP) Certification Class *</td>
</tr>
<tr>
<td>CxA Workshop and Exam *</td>
</tr>
<tr>
<td>2:00 PM - 4:00 PM</td>
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<tr>
<td>Stream Data Center Tour</td>
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* Separate fee applies

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<thead>
<tr>
<th>TUESDAY, SEPTEMBER 24</th>
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<tbody>
<tr>
<td>7:30 AM</td>
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<tr>
<td>Coffee and Networking</td>
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<tr>
<td>8:00 AM - 11:15 AM</td>
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<tr>
<td>Conference Sessions</td>
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<tr>
<td>11:30 AM - 1:00 PM</td>
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<tr>
<td>Lunch Session in Expo Hall</td>
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<tr>
<td>(Full conference registrants only)</td>
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<tr>
<td>1:00 PM - 4:00 PM</td>
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<tr>
<td>Expo Hall Open</td>
</tr>
<tr>
<td>Learning Lab Sessions</td>
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<tr>
<td>Snapshot Sessions</td>
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<tr>
<td>4:00 PM - 5:00 PM</td>
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<tr>
<td>Networking Reception</td>
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<tr>
<td>Sponsored by BitBox USA</td>
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<tr>
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<tr>
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POWERHOUSE SPEAKERS

Hear from the mission critical industry's most dynamic lineup of speakers...experts who understand the issues and deal with them on a daily basis. Critical Facilities Summit is the only time these experts are available to you...all at one time and all in one place!

JOHN BENNETT
Vice President, Safety
M.C. Dean

DAVID BOSTON
Director, US Global Critical Environments Team
BGIS

TODD BOUCHER, RCDD, DCEP
Principal & Founder
Leading Edge Design Group

CHLOE DEMROVSKY
President and CEO
Disaster Recovery Institute International

MICHAEL FLUEGEMAN, PE
Director of Engineering and Principal
Plannet Consulting

ANTHONY GENNELLO
Senior Solutions Engineer
Critical Environments Group

RICHARD GEORGE, CSP, CHST
Director, Safety
M.C. Dean

JEFF GILMER
Senior Partner
Excipio Consulting

JEFFREY GOETZ, PE, CEM, LEED AP
Fluor Fellow & Director II - Sustainability & Energy Management
Fluor Corporation

JEFFREY H. GYZEN, AIA
Principal
Corgan
POWERHOUSE SPEAKERS (CONT.)

DAVID QUIRK, PE, LEED, AP, CEM
Vice President and Principal
DLB Associates

KYLASH RAMESH
Management Analyst, Division of Facilities Operations & Maintenance
National Institutes of Health

DAVID RELKO, PE CXA
Commissioning Manager
Jacobs

VINCENT RENAUD
Principal
Blackdog Critical Facilities Solutions, LLC

SHANE RIGGIO
Senior Client Delivery Manager
RealFoundations

EDWARD SULLIVAN
Editor
Building Operating Management Magazine

BRUCE THORPE
Global Energy & Critical Environments
NVIDIA Corporation

CHRISTOPHER WADE, CDCEP, CBCP, CPPL
Sr. Manager, Data Center Engineering Operations
Amazon Web Services (AWS)

ANDREW WATT
Safety Professional
M.C. Dean
## Educational Sessions at a Glance

### Tuesday, September 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00 AM - 8:45 AM</td>
<td>CFS 2019 Power Preview</td>
</tr>
<tr>
<td>9:00 AM - 10:00 AM</td>
<td>(Almost) Everything You Want to Know about IT Equipment Grounding in Data Centers</td>
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<td>Airflow: Theory vs. Practice</td>
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<td>Advanced Asset Management for Critical Facilities</td>
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<td>The Rackonomics of Air vs Liquid Cooling</td>
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<td></td>
<td>Improving Critical Facility Incident Response: Document Control Rooms</td>
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<td>Securing Data Centers Against Extreme Attacks</td>
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<td>Breakfast Session - Got Resilience? Strategies to Ensure Uptime (in Expo Hall)</td>
</tr>
<tr>
<td>10:00 AM - 1:00 PM</td>
<td>Learning Lab Sessions in the Expo Hall</td>
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<tr>
<td>1:15 PM - 2:15 PM</td>
<td>Overcoming Pain Points in Operational Readiness</td>
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<td>Commissioning Electrical Systems in Critical Facilities</td>
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<td>Is There Liquid Cooling in Your Data Center Future?</td>
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<td>Data Center as a Service</td>
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<tr>
<td>2:30 PM - 3:30 PM</td>
<td>Avoiding Downtime: O&amp;M Best Practices for High Reliability Infrastructure</td>
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<td>Safety in the Age of Hyperscale Construction</td>
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<td>The Changing Landscape for Critical Environments</td>
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<td>Containment Improvements That Don't Bust Your Budget</td>
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<td>Power Down: The CFS Closing Session</td>
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2 DAYS OF EDUCATION

Tuesday, September 24

8:00 AM

CFS 2019 POWER PREVIEW
Edward Sullivan
Nancy Novak
Make the most of your Summit experience at this invigorating opening keynote session! Hear from Nancy Novak of Compass Datacenters as she identifies need-to-know trends, technologies and strategies that will define the industry—and your career.

Audience: Intermediate

9:00 AM

(ALMOST) EVERYTHING YOU WANT TO KNOW ABOUT IT EQUIPMENT GROUNDING IN DATA CENTERS
Joe Prisco
When there are problems with the operation of IT equipment, the facility infrastructure, specifically electrical power and grounding, is often suspected as the cause. Electrical power and grounding are usually reviewed and checked first through a process of elimination. In general, proper grounding and bonding are the first line of defense for power quality problems as well as protection against electric and static shock.

Even though grounding and bonding of IT Equipment is required by electrical code, the importance of grounding cannot be overstated. Grounding is not only required for safety reasons, but also needed for optimum performance and successful operation of IT equipment.

Audience: Senior

9:00 AM

NEW TOOLS FOR ENERGY EFFICIENCY: AI AND MACHINE LEARNING
Bruce Thorpe
When it comes to energy use, machine learning—along with its counterparts AI and neural networks—is poised to create significant impacts in the data center community. Are you ready to make the most of the opportunity? This session presentation kicks off with introduction to need-to-know terms including machine learning, AI and neural networks, then goes on to detail a pilot project of one company's building and lab. Attendees will see how extracting deep and beneficial data can point the way to greater efficiency, and the value of applying ASHRAE Standard 55-2017 to the process.

Audience: Senior

9:00 AM

AIRFLOW: THEORY VS. PRACTICE
Peter Matte
This session features an industry thought leader’s perspective on airflow optimization, with a theoretical versus practical examination of airflow and pressure behavior in data centers. Using data from more than 200 data center airflow optimization projects in the past decade, this presentation will take a deep dive into the findings and offer insights into how this information can help shape cost effective approaches to thermodynamics, achieving target PUE and ensuring a sound cooling methodology.

Audience: Senior

Well worth the time just to participate in the educational sessions. The exhibit hall is also an excellent opportunity to see different products and services than we might typically see at our sites.

— Tom Rorer, Site Director, QTS Datacenters
EDUCATIONAL SESSIONS (CONT.)

9:00 AM
ADVANCED ASSET MANAGEMENT FOR CRITICAL FACILITIES
Kylash Ramesh

Many Critical Facilities are governed by compliance regulations. As a result, FMs have to know what equipment exists, where it is located, and how often it requires inspection. A Facility Asset Data Requirement and Turnover Procedure must be established and implemented to ensure that all changes to equipment, including construction and renovations projects, are turned over with all required data to the facility owner. In this session, we will discuss how organizations can leverage industry standards to develop a Facility Asset Data Requirement and Turnover Procedure. We will then discuss how this topic relates to Asset Management and Building Information Modeling (BIM).

Audience: All

10:15 AM
BACKUP POWER: NEW APPROACHES VIA UPS, ENERGY STORAGE AND EV TECHNOLOGIES
Michael Fluegeman, PE
Jeffrey H. Gyzen, AIA

Diesel- and gas-fired generators and automatic switchgear have provided long-term backup power to critical facilities for decades, but a quantum leap forward is about to occur, thanks to the advent of large-scale utility, commercial and residential energy storage, plug-in electric vehicles and the application of standard UPS for peak-demand cost management. What do these breakthroughs have in common? Lithium-ion batteries lead the charge, but it goes beyond that. This talk will highlight vast improvements in the cost and performance of rectifier/chargers, inverters, high-speed power switching and control systems, and project where they’re heading. Will a single system soon replace conventional standby generators and UPS systems? We’ll talk about it.

Audience: All

10:15 AM
THE RACKONOMICS OF AIR VS LIQUID COOLING
Julius Neudorfer, DCEP

Liquid Cooling sees more activity and press coverage these days, but in the enterprise and colocation communities it retains the reputation of a niche solution for specialized computing segments like HPC and supercomputing. Part of the issue is the fear of water "Data Center Hydrophobia," while the other is the perception of higher CapEx and Opex costs associated with the technology.

Hyperscalers already utilize liquid cooling, in order to deploy the latest generation of ever more powerful processors (such as Google’s Liquid Cooled TPU processors), as well as for overall energy efficiency and reduced cooling costs.

Will this be the year that breaks the liquid cooling logjam for conventional servers? That is yet to be seen, but if there is anything that drives most critical facilities to adopt new technology, it’s the flow of money. This presentation will examine the various types of liquid cooling systems and the Rackonomics of air versus liquid cooling.

Audience: Senior

10:15 AM
IMPROVING CRITICAL FACILITY INCIDENT RESPONSE: DOCUMENT CONTROL ROOMS
David Boston

When disaster strikes a critical facility, a document control room is an underused best practice. A central repository for everything from commissioning records to equipment and parts information to schematics, this room serves as a command center, offering space for brainstorming, and access to critical documentation when it’s needed most. This session explores ways facility professionals can implement a plan to create a document control room at their facility, and share practices that have been successful for other critical organizations.

Audience: All
EDUCATIONAL SESSIONS (CONT.)

10:15 AM
SECURING DATA CENTERS AGAINST EXTREME ATTACKS
Todd Boucher, RCDD, DCEP

Securing data centers against security threats is critical to our nation’s economy and infrastructure. Financial institutions and the stock market are processing vital economic data through their data centers. Companies with the highest market capitalization like Apple, Microsoft, Amazon, and Facebook, rely on data centers to run every aspect of their business. The rise in importance of data centers to our nation’s economy and infrastructure increases their risks of being targeted by malicious attacks of terrorism that cyber security and physical access control measures cannot stop.

This presentation will provide an in-depth case study of a recent data center project designed and built to withstand both nuclear attacks and local, targeted terrorism attacks that use intentional electromagnetic interference (IEMI). The case study will include project images demonstrating the unique measures taken to provide the extreme level of security required by the owner.

Audience: All

11:30 AM
LUNCH SESSION - POWER COUPLES: MAKING THE MOST OF THE FM-IT RELATIONSHIP
Nabeel Mahmood
Edward Sullivan
Christopher Wade, CDCEP, CBCP, CPPL
Shane Riggio

Tuesday’s general session at Critical Facilities Summit underscores the need for a unified approach between FM and IT teams. This panel offers their take on how—and why—using a power couple approach to critical facility management ensures all sides are informed, engaged and moving initiatives forward. Get insights into best practices for an FM-IT partnership on everything from analytics to stakeholder communications to capacity to safety and security in always-on buildings.

Audience: All

"A summit with great attendance by people who are at the front line of operations and actually run data centers. I personally haven’t attended a conference with so many FM people per square foot."

— Pierre Sackey, Business Development Director, DLB Associates
Wednesday, September 25

8:30 AM
BREAKFAST SESSION - GOT RESILIENCE?
STRATEGIES TO ENSURE UPTIME
Chloe Demrovsky
David Quirk, PE, LEED AP, CEM
Edward Sullivan
Erik Murray

In theory, critical facilities are designed for 99.99 percent uptime. In reality, 31 percent of data centers experienced downtime or severe service degradation last year, caused by the usual suspects of human error, cyber crime, UPS failure and severe weather. It’s a statistic that prompts the question: How well prepared am I to prevent downtime in my own organization? This session provides expert perspective on tackling resilience, uptime and risk. Our panel of thought leaders will identify common vulnerabilities as well as emerging threats, and shine a light on how mission creep can undermine even the most robust disaster response plan. The session will also offer advice on communicating with top management to get the support you need for steps to improve resilience. From best practice outcomes to worst-case scenarios, this interactive conversation will equip attendees with concepts they can apply within their own facilities to minimize downtime.

1:15 PM
OVERCOMING PAIN POINTS IN OPERATIONAL READINESS
Jeffrey Goetz, PE, CEM, LEED AP

There is a gap in our industry between the handover of a completed critical facility construction project and the start of operation. Commissioning can be a helpful tool, but it does not equate to operational readiness. In this session, you’ll learn how to fill the gaps that occur between project completion and startup, how to integrate operational readiness into the construction stage and how to align the entire project with operations and maintenance to achieve a painless handover of your data center.

IS THERE LIQUID COOLING IN YOUR DATA CENTER FUTURE?
Vali Sorell, PE

Commissioning electrical systems in critical facilities requires great care, planning, and coordination. Performing this task correctly can save your clients the extreme costs and embarrassment of system outages due to improperly tested equipment or insufficient levels of testing. This presentation will discuss the commissioning process, tasks and sequences along with discuss the importance of coordination and cooperation required to successfully ensure your electrical systems and entire facility will perform as intended.

1:15 PM
COMMISSIONING ELECTRICAL SYSTEMS IN CRITICAL FACILITIES
David Relko, PE CxA

Commissioning electrical systems in critical facilities
EDUCATIONAL SESSIONS (CONT.)

1:15 PM
DATA CENTER AS A SERVICE
Jeff Gilmer

As companies are looking to increase efficiency and use their available funding on what is best for their business, many are looking at alternative uses for their data center. In addition, they are focused on use of technology to help them continue to improve time to market, increase customer service, and maintain the competitive edge needed in today’s world. Many are looking to alternative methods of technology delivery and the “As A Service” offering has been introduced to the industry. Lately, the Data Center As a Service and Disaster Recovery As a Service seem to be appearing in marketing materials from many organizations. What does this really mean for the Data Center in the future? This session will discuss how “As A Service” relates to the Data Center, and when and how it makes sense for an organization to provide or use Data Center As A Service in their technology solutions. This will cover topics for both data center providers, as well as internal data center operators.

Audience: Senior

2:30 PM
AVOIDING DOWNTIME: O&M BEST PRACTICES FOR HIGH RELIABILITY INFRASTRUCTURE
George Kerns
Vincent Renaud

After an Intelligence Community organization experienced 60 facility outages in 10 years – each with the potential for critical mission impacts – they conducted a root cause analysis. Over 80 percent of the incidents were traced to human error such as configuration control issues, lack of training or not following procedures. The agency implemented the “High Reliability Organization” Operations & Maintenance approach described in this case study to improve critical infrastructure management.

Audience: Senior

2:30 PM
SAFETY IN THE AGE OF HYPERSCALE CONSTRUCTION
John Bennett
Richard George, CSP, CHST
Andrew Watt
Christopher McLean, PE

Nearly 20 percent of workplace fatalities occur in the construction industry, a statistic that’s measurably worse for first-year laborers, who account for 60 percent of construction site injuries. On massive data center campuses, it’s not uncommon to see hundreds of laborers per trade. So how can we make the environment safer for everyone? This interactive session features a real-time Operational Risk Management (ORM) exercise with the audience, and offers insights into how technology, advances in modular construction, new software technologies and design innovations can contribute to a safer, more efficient construction atmosphere.

Audience: All
EDUCATIONAL SESSIONS (CONT.)

2:30 PM
CONTAINMENT IMPROVEMENTS THAT DON’T BUST YOUR BUDGET
Anthony Gennello
Robert Huttemann
The benefits to optimizing airflow in your data center are numerous, with the most attention-getting reason being up to a 30 percent energy savings. But achieving this type of savings is much more involved than simply turning off a CRAC unit. The underlying issues must be resolved before mechanical load can be reduced and savings realized. The good news is that achieving efficiency gains doesn’t always require costly and comprehensive overhauls. Sometimes it may be as simple as plugging some holes. But how can you properly address those airflow or capacity problems that, for the most part, are unseen?

This session explores the concept of Digital Twinning, one of the latest technologies to emerge from Industry 4.0. Gartner has identified it as one of the top strategic technology trends for 2019. In the Data Center, a Digital Twin models all infrastructure aspects of your facility, including IT, racks, cooling and power distribution. Using the power of CFD, you’re able to solve airflow issues in real-time while simultaneously creating “what-if” scenarios for future deployments. With Digital Twinning, you can have informed, actionable discussions about the best options – large or small; simple or complex – for your data center.

Audience: Senior

3:45 PM
POWER DOWN: THE CFS CLOSING SESSION
Jeff Gilmer
Edward Sullivan
Critical Facilities Summit concludes by bringing attendees, speakers and exhibitors together to share lessons learned in a powerful wrap up session. This facilitated gathering will help convert the knowledge gained Dallas into a strategic plan that increases reliability, efficiency and value at critical facility organizations. Take advantage of a final opportunity connect with peers in a collaborative, solution-oriented, powerful environment.

Audience: All

Continuing Education Credits (CEUs)

Earn CEUs for every session you participate in at CFS — up to 8 hours overall! Approximately 10 days after the Summit you'll receive an email with a link to assessment questions for sessions you were scanned into. After successfully answering four true/false questions you will receive a transcript indicating the CEUs earned. That transcript can be used to self-report to any licensing body or association needed. Critical Facilities Summit provides attendees CEUs for no additional charge.

Trade Press Media Group (Critical Facilities Summit) is accredited by the International Association for Continuing Education and Training (IACET). TPMG complies with the ANSI/IACET Standard, which is recognized internationally as a standard of excellence in instructional practices. As a result of this accreditation, Trade Press Media Group (Critical Facilities Summit) is accredited to issue the IACET CEU.

Trade Press Media Group (Critical Facilities Summit) is authorized by IACET to offer 0.1 CEUs for each conference session.

Please see website for full session descriptions with learning objectives.
<table>
<thead>
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<th>Powervar</th>
<th>Sunbelt Rentals</th>
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<td>Sunbird Software</td>
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<td>Quest Controls</td>
<td>Super Radiator Coils</td>
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<td>RPS America</td>
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<td>Leoch Battery Corporation</td>
<td>Server Technology/Raritan</td>
<td>TRAX Industrial Products</td>
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<td>National Heat Exchange Cleaning</td>
<td>Stream Facilities Management</td>
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<td>EnerSys</td>
<td>PDU Cables</td>
<td>Sun Coast Resources, Inc.</td>
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(Exhibitor List as of August 6, 2019)
### Expo Hall Schedule

**TUESDAY, SEPTEMBER 24**

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### TRAVEL

#### Venue with A Wow-Factor

The Critical Facilities Summit takes place at the Hilton Anatole Hotel in Dallas, TX. Overlooking downtown Dallas, this landmark is on 45 lush acres in the vibrant Design District.

The Hilton Anatole hotel is a luxury hotel with all the amenities you’d expect plus one of the largest art and antique collections of any U.S. hotel including a sculpture park. Special room rates available for Critical Facilities Summit participants. Cut-off date for hotel reservations: September 4, 2019.
<table>
<thead>
<tr>
<th>Plan</th>
<th>Price</th>
<th>Description</th>
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| **FULL CONFERENCE PASS**  | $495  | Includes:  
  - Welcome Reception  
  - All Educational Services  
  - Coffee and networking each morning  
  - Breakfast and Lunch Both Days  
  - Entry to Expo Hall  

  *(Government and Military: $295)*  

| **EXPO ONLY**              | FREE  | Free to end users only: mission critical facility professionals, owners, engineers, architects or consultants. Non-Buyers (Manufacturer/supplier/distributor community and/or hold a business development/sales job title) — please purchase conference pass.  

  *(Excludes meal functions)*  

| **NON-BUYER PASS**         | $2,500| Non-exhibiting suppliers and vendors need to purchase a pass to get into the Critical Facilities Summit. If your company provides technology, products or services or you, as an individual work in a senior management, marketing sales or business development role, you must purchase a nonbuyer pass.  

*(Excludes meal functions)*
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