BICSI FALL
Conference & Exhibition
Virtual Online Event • 27 September – 1 October 2020
Leading the Future for the Connected World
An Exciting, Engaging, Interactive Event Is Coming Soon

BICSI is hosting the 2020 Fall Conference & Exhibition in a virtual format this year, and you are invited. From 27 September through 1 October, BICSI will be using the latest virtual event technology to bring you the very best information and communications technology (ICT) education and innovation that the industry has to offer. Get ready to enjoy an intuitive virtual experience for attendees and exhibitors alike, with highlights including interactive features, audio and video chat, and much more.

Educational presentations cover a variety of important topics being discussed by ICT professionals in the Connected World. Some of these include:

- Data Centers
- Audiovisual (AV)
- Power over Ethernet (PoE)
- Wireless and Distributed Antenna Systems (DAS)
- Smart Cities
- Optical Fiber and Passive Optical Networks (PON)
- Internet of Things (IoT)

No matter your focus in the industry, the conference schedule includes several presentations to suit your interests, along with three dynamic keynote presentations that are sure to en-gross and entertain. Couple that with networking opportunities and the ability to connect with exhibitors to discuss their products and services, and the result is a conference that is well worth your investment.

And all of this can be experienced from the comfort of your home or office, anywhere in the world. There is no software to download—you will just need internet access and your preferred web browser. No matter where you are, you can completely immerse yourself in ICT knowledge-building and technological advancements while networking with colleagues from the other side of the globe.

BICSI cannot wait to welcome you to the 2020 Virtual Fall Conference & Exhibition!
Educational Content. Multiple Formats. All at Your Fingertips.

Pre-Conference Masterclasses: Available Sunday-Monday, these exclusive learning opportunities are a great way to take a deeper look at some of today’s hottest ICT trends and topics. Masterclasses are available for an additional fee when you register for the conference. See all Pre-Conference Masterclasses available on pages 5-6.

General and Concurrent Sessions: Insightful presentations with real-world application are scheduled Tuesday-Thursday, with the opportunity to personalize your conference experience based on your individual interests and career needs. Presentations are delivered by respected subject matter experts and cover multiple facets of ICT. See all General and Concurrent Sessions on pages 6-9.

Exhibit Hall: The latest ICT technologies, solutions, and services await you in the Exhibit Hall. Exhibitors from all backgrounds and verticals of the industry, including cable and access control manufacturers, test and structured cabling equipment suppliers, data center design and maintenance specialists and many more will be available to speak with you about how to integrate their solutions to elevate your company’s portfolio. These are valuable industry connections that will benefit you in your career. Visit bicsi.org/fallexhibitors for the complete list of exhibiting companies.

Training Classes: Maximize your learning prior to the conference by signing up for additional virtual classroom training offered by BICSI prior to the start of the conference (Tuesday, 22 September through Saturday, 26 September). Course topics include telecommunications project management, distribution design, data center design and best practices, and outside plant design. Visit to bicsi.org/falltraining to see the training classes available.

**Tuesday**
29 September 8:45-9:30 a.m.

**Opening Keynote:**
“Being Human in the Age of Digital Innovation”

Jeff Butler
Speaker, Author, and Workplace Strategist

**Wednesday**
30 September 8:45-9:30 a.m.

**Mid-Week Keynote:**
“Becoming a Love-Based Leader To Create A Culture Of Success”

Ivo Nelson
Entrepreneur and Author of Love-Based Culture

**Thursday**
1 October 10-11 a.m.

**Closing Keynote:**
“Embracing Change: Discover the Possibility Within the Unknown”

Brett Culp
Acclaimed Filmmaker and Speaker

Register at bicsi.org/fall | pg. 3
The Virtual Conference Experience

Virtual conferences are the “new normal” for industry professionals to get their continuing education and network with their colleagues and others. Here is a look at what BICSI’s conference will look like in a virtual format.

CONFEERENCE LOBBY

The Lobby is your hub for all things Fall Conference. From the Lobby, you will be able to access the conference presentations, the Exhibit Hall, and the Lounge. You will also have easy access to the conference information desk for any help you may need. Quick access banners will also get you to secure sites to make your BICSI Cares donation or to shop at the BICSI Store to purchase publications and BICSI branded clothing and accessories.

EXHIBIT HALL

One of the most exciting features of any BICSI conference is the bustling Exhibit Hall, and the virtual Hall is truly the place to be. During your visit, you will be able to explore booths with the click of your mouse. Exhibitors will be available to live chat with you about their latest products and services. Take time to learn all you can from the exhibiting companies and expand your network of contacts, all at your own pace. Engage with industry-leading exhibitors and create lasting connections in a virtual environment.

EDUCATIONAL SESSIONS

Welcome to the educational sessions! This is the interface for all technical and keynote presentations. Whether you are listening to an ICT subject matter expert explain how to prepare your cabling infrastructure for 5G or taking notes from a keynote speaker on embracing change, you will do it all right here in the conference auditorium. To maximize your conference investment, presentations will also be available on demand for you to go back and watch any you may have missed—or rewatch those that you enjoyed the first time.

LOUNGE

When it is time to take a break from the learning or exhibits, spend some time in the BICSI Lounge. Here, you can meet up with colleagues in a chat room and speak with BICSI volunteers about their activities or how to get involved yourself. BICSI staff will also be available to talk to you about training, certifications, publications, and everything in-between.

Win Prizes by Learning and Networking

Make the Virtual Fall Conference even more fun by participating in the Gamification aspect of the event. Here is how it works:

- For each session you attend, and for each exhibitor booth you visit, you will earn points.
- There will be a leaderboard showing who is topping the race for the most points.
- At the end of the conference, the top point-earners will win great prizes, such as gift cards or electronics.
The conference will be held in Pacific Daylight Time (PDT). Presentation descriptions and additional information can be found online at bicsi.org/fallschedule.

### Sunday, 27 September 2020

**PRE-CONFERENCE MASTERCLASSES**

(additional registration fee)

**8:30 a.m.-4:30 p.m.**

**“Fundamentals of Passive Optical LAN” - Day 1 of 2**

12 CECs (when attending the full two-day class)

- Matt Miller – AECOM – Baltimore, Maryland, USA
- Chad Hines – ITConnect Inc. – Santa Fe, New Mexico, USA
- Thomas Ruvarac – Association for Passive Optical LAN – New York, New York, USA

**Topic: Optical Fiber & Passive Optical Networks (PON)**

**8:30 a.m.-4:30 p.m.**

**“AV Like Paint by Numbers”**

6 CECs

- Eric J. Marshall, RCDD, NTS, TECH – E.R.I.C. Co Low Voltage Services – Modesto, California, USA

**Topic: Audiovisual**

**8:30 a.m.-Noon**

**“Data Center Design from Rack Row to Rack Space”**

3 CECs

- Joe Skorjanec – EATON – Sioux Falls, South Dakota, USA

**Topic: Data Center**

**1-4:30 p.m.**

**“Grounding and Bonding Fundamentals That Can Prevent Downtime and Outages”**

3 CECs

- David Brender – Brender & Associates LLC – Delray Beach, Florida, USA

**Topic: ICT Professional Development**

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**Monday, 28 September 2020**

**8:30 a.m.-4:30 p.m.**

**“Fundamentals of Passive Optical LAN” - Day 2 of 2**

12 CECs (when attending the full two-day class)

- Matt Miller – AECOM – Baltimore, Maryland, USA
- Chad Hines – ITConnect Inc. – Santa Fe, New Mexico, USA
- Thomas Ruvarac – Association for Passive Optical LAN – New York, New York, USA

**Topic: Optical Fiber & Passive Optical Networks (PON)**

**8:30 a.m.-Noon**

**“Installing AV in New Age Collaboration Spaces”**

3 CECs

- Karl Rosenberg – Extron – Anaheim, California, USA

**Topic: Audiovisual**

**8:30 a.m.-Noon**

**“Addressing the Optical Infrastructure Challenges of Tomorrow’s Modern Data Center”**

3 CECs

- Sean Adam – AFL – Westford, Massachusetts, USA
- Lucas Mays – AFL – Duncan, South Carolina, USA
- Kevin Clayton – AFL – Duncan, South Carolina, USA

**Topic: Data Center**

Register at bicsi.org/fall | pg. 5
8:30 a.m.-Noon

“Fiber’s Role in Smart Buildings – Considerations for Deployment and Testing”

3 CECs

• Jim Davis – Fluke Networks – Everett, Washington, USA
• Rodney Casteel, RCDD, DCDC, NTS, OSP – CommScope – Shakopee, Minnesota, USA
• Rob Gilberti – AFL – Duncan, South Carolina, USA
• Romain Tursi – EXFO – Quebec City, Quebec, Canada
• Tyler Vander Ploeg, RCDD – VIAVI Solutions – Bothell, Washington, USA

Topic: Intelligent Buildings/Smart Cities/IoT

1-4:30 p.m.


3 CECs

• Tyler Andrews – PoE Texas – Austin, Texas, USA
• Hannah Walker – Sinclair Digital LLC – Fort Worth, Texas, USA
• Larry Jones – Baird, Hampton & Brown – Fort Worth, Texas, USA
• Donald Walker, RCDD – Newcomb & Boyd – Atlanta, Georgia, USA
• Luis Suau – Sinclair Digital LLC – Fort Worth, Texas, USA
• Andy Rittenhouse – Somfy Systems – Dayton, New Jersey, USA
• Joseph Herbst – PoE Texas – Beaverton, Oregon, USA

Topic: Intelligent Buildings/Smart Cities/IoT

8:45-9:30 a.m.

OPENING KEYNOTE

“Being Human in the Age of Digital Innovation”

• Jeff Butler – Speaker, Author and Workplace Strategist

9:30-10:30 a.m.

ICT Field of Vision Presentation

“Advancements and Solutions for Next-Generation Data Centers”

• Joshua Seawell – Sumitomo Electric Lightwave – Raleigh, North Carolina, USA

Topic: Data Center

10:30 a.m.-4 p.m.

EXHIBIT HALL OPEN

CONCURRENT SESSIONS (choose one)

11 a.m.-Noon

“The Race to 5G: Preparing Your Network Infrastructure”

• Syed Hassan Ahmed – JMA Wireless – Liverpool, New York, USA
• Brendan Delaney – Advanced Network Services, LLC – Albany, New York, USA

Topic: Wireless & DAS

“Power over Ethernet (PoE): Watts in Your Network?”

• Jake Edler – Omnitron Systems – Irvine, California, USA

Topic: Power over Ethernet

“Coronavirus Aftermath: What is the New ‘Norm’ Regarding Electronic Safety & Security?”

• Larry Reed – ZKTeco USA – Alpharetta, Georgia, USA

Topic: New & Emerging Technologies

Tuesday, 29 September 2020

8:30-10:30 a.m.

OPENING GENERAL SESSION

8:30-8:45 a.m.

Conference Call to Order and Opening Remarks

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Wednesday, 30 September 2020

CONCURRENT SESSIONS (choose one)
1:30-2:30 p.m.
“Designing User-Centric Wi-Fi Networks”
• Jussi Kiviniemi – Mist (Juniper Networks) – Espoo, Finland

Topic: Wireless & DAS

“Don’t Lose Your Cool: Overcoming Thermal Challenges and More with PoE at the Edge”
• Tom Cabral – Chatsworth Products, Inc. – Atlantic Beach, Florida, USA

Topic: Power over Ethernet

“Single-Pair Ethernet: One Protocol to Rule Them All”
• Mike Vermeer – PANDUIT Corp. – Tinley Park, Illinois, USA

Topic: New & Emerging Technologies

2:45-3:45 p.m.
“Will 5G Replace Wi-Fi?”
• Mark Niehus, RCDD – Connectivity Wireless Solutions – Duluth, Georgia, USA
• Scott Rahim – Connectivity Wireless Solutions – Duluth, Georgia, USA

Topic: Wireless & DAS

“Practical Lightning Mitigation”
• Jerry Hogan – Solara Technical Sales – Spearfish, South Dakota, USA

Topic: ICT Professional Development

“Analytics: Discovering a World of Possibilities”
• Geoffrey Bauer, ESS – Axis Communications – Chelmsford, Massachusetts, USA

Topic: New & Emerging Technologies

4-5 p.m.
“Tips, Techniques and Tools for Troubleshooting Wireless LANs”
• Keith Richard Parsons – Wireless LAN Professionals – Elk Ridge, Utah, USA

Topic: Wireless & DAS

“Technology Engineering Commissioning (TECx) – Why This is a Necessity”
• Randal Gruberman, RCDD – TFitzemeyer & Tocci Associates, Inc. – Pleasant Hill, California, USA

Topic: ICT Professional Development

“North Carolina State University’s Enterprise Physical Infrastructure Compendium (EPIC) – An All Inclusive Repository for IT Infrastructure”
• Jason Proctor – North Carolina State University – Raleigh, North Carolina, USA
• Alvin Gilmore, RTPM, TECH – North Carolina State University – Raleigh, North Carolina, USA

Topic: New & Emerging Technologies

CONCURRENT SESSIONS (choose one)
9:45-10:45 a.m.
“Smart City: To IoT or Not to IoT? Connecting the Campus and the City”
• John Madey, RCDD – University of Florida – Gainesville, Florida, USA

Topic: Intelligent Buildings/Smart Cities/IoT

“Distributed Fiber LAN Architectures in the Enterprise – Not So Weird Anymore!”
• Sean Kelly, RCDD – Rosenberger North America – York, Pennsylvania, USA

Topic: Optical Fiber & PON

“Installing AV in New Age Collaboration Spaces”
• Karl Rosenberg – Extron – Anaheim, California, USA

Topic: Audiovisual
11 a.m.-noon
“Using Smart Building Implementation Model to Transform the Built Environment”
- Todd Boucher, RCDD – Leading Edge Design Group – Enfield, New Hampshire, USA
- Bill Moten – Leading Edge Design Group – Enfield, New Hampshire, USA

Topic: Intelligent Buildings/Smart Cities/IoT

“Fiber in the NOW: Trends and New Technologies Demanding Fiber Deployment”
- Rodney Casteel, RCDD, DCDC, NTS, OSP – CommScope – Hickory, North Carolina, USA
- Zoren Bullock – Corning Optical Communications – Corning, New York, USA
- Tony Irujo – OFS – Sturbridge, Massachusetts, USA
- Robert Reid – PANDUIT Corp. – Tinley Park, Illinois, USA

Topic: Optical Fiber & PON

“High-Performance AV and Considerations for Your Network”
- Robert Basile – Corning Optical Communications – Charlotte, North Carolina, USA
- Ales Peras – Crestron – Rockleigh, New Jersey, USA

Topic: Audiovisual

Noon-4 p.m.
EXHIBIT HALL OPEN

1:30-2:30 p.m.
“PoE Lighting and IoT: A Winning Problem-Solving Combination”
- Bob Allan – The Siemon Company – Watertown, Connecticut, USA
- Matt Scharkozy – The Siemon Company – Watertown, Connecticut, USA
- Mike Barbera – Intersect Management – San Diego, California, USA
- Bob Mobach – Logicalis, Inc. – Bend, Oregon, USA
- Dwight Stewart – Igor – West Des Moines, Iowa, USA

Topic: Intelligent Buildings/Smart Cities/IoT

“Reuse or Replace: Know the Potential of Your Fiber Network”
- Charlie Bogolawski, RCDD – Leviton Network Solutions – Bothell, Washington, USA

Topic: Optical Fiber & PON

“Beyond the Noise…Sound Masking Optimized for Integrators”
- Todd Berger – Biamp – Waltham, Massachusetts, USA

Topic: Audiovisual

2:45-3:45 p.m.
PANEL DISCUSSION
“Public Policy in a Changing World – How Will it Impact the ICT Professional?”
Moderator
- Charles Wilson – The National Systems Contractors Association – Cedar Rapids, Iowa, USA

Panelists
- Joseph Lee – Cisco Systems, Inc. – Washington, DC, USA
- William Foy, RCDD, ESS, NTS, OSP, WD – S2N Technology Group, LLC – Bethesda, Maryland, USA
- David Kiddoo – Communications Cable & Connectivity Association – Phoenix, Maryland, USA

Topic: Intelligent Buildings/Smart Cities/IoT

“The Edge – An Implementation Strategy”
- John Gray, RCDD – Schneider Electric – Chesterfield, Missouri, USA

Topic: Data Center

“Deploying SMPTE ST 2110 in a Distributed Campus System”
- Tony Pearson – North Carolina State University – Raleigh, North Carolina, USA
- Shawn Colvin – North Carolina State University – Raleigh, North Carolina, USA

Topic: Audiovisual
4-5 p.m.
“The Smarts of a Smart City”
• Carrie Goetz, RCDD, NTS – StrategITcom, LLC – Brandon, Mississippi, USA

Topic: Intelligent Buildings/Smart Cities/IoT

“Challenges with Firestopping and Airflow Containment in Data Centers”
• Christopher Kusel – Hilti North America – Plano, Texas, USA

Topic: Data Center

“Cable Testing Means More Uptime: Standards and Testing of Industrial Ethernet Copper Cabling”
• Jim Davis – Fluke Networks – Everett, Washington, USA
• Mike Berg – PANDUIT Corp. – Tinley Park, Illinois, USA

Topic: New & Emerging Technologies

9-9:30 a.m.
ICT Field of Vision Presentation

COMMSCOPE®

“Manage Your PoE Infrastructure with Automated Infrastructure Management (AIM)”
• Ronna Davis – CommScope – Henderson, Nevada, USA

Topic: Power over Ethernet

9:45-10 a.m.
BICSI Cares Presentation and Door Prize Drawing

10-11 a.m.
CLOSING KEYNOTE
“Embracing Change: Discover the Possibility Within the Unknown”
• Brett Culp – Filmmaker and Speaker Who Documents the Positivity of the Human Experience

11-11:30 a.m.
Conference Wrap-up

ANTITRUST

BICSI believes strongly in competition. U.S. antitrust laws are the rules under which our competitive system operates. It is BICSI’s policy to comply in all respects with the antitrust laws.

Association meetings or workshops by their very nature bring competitors together. Accordingly, it is necessary to avoid discussions of sensitive topics. Agreements to fix prices, allocate markets, engage in product boycotts and to refuse to deal with third parties are automatically illegal under the antitrust laws. It does not matter what the reason for the agreement might be.

Accordingly, at any association meeting discussions of prices (including elements of prices such as allowances and credit terms), quality ratings of suppliers, and discussions that may cause a competitor to cease purchasing from a particular supplier, or selling to a particular customer, should be avoided. Also, there should be no discussion that might be interpreted as a dividing up of territories.

An antitrust violation does not require proof of a formal agreement. A discussion of a sensitive topic, such as price, followed by action by those involved or present at the discussion is enough to show a price-fixing conspiracy. As a result, those attending an association-sponsored meeting should remember the importance of avoiding not only unlawful activities, but even the appearance of unlawful activity.
Complete your registration online today at bicsi.org/fallreg. Or contact BICSI by email at bicsi@bicsi.org or by calling +1 813.979.1991 or 800.242.7405 (USA and Canada toll-free) for assistance with registration.

Registration for the 2020 BICSI Fall Conference includes all conference materials, admittance to conference sessions (general and concurrent) and exhibits. The registration fee does not include admittance to Pre-Conference Masterclasses.

**Full Conference Registration**

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<th>Pricing</th>
<th>BICSI Member: $825</th>
<th>Nonmember: $1,050</th>
<th>SIMS Member: $695</th>
<th>SIMS Nonmember: $825</th>
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By attending the Fall Conference, you agree to abide by BICSI’s Virtual Programs Code of Conduct. Visit bicsi.org/virtualcode for details.

**Pre-Conference Masterclass Registration**

- **2-Day**
  - BICSI Member: $400
  - Nonmember: $600
- **Full Day**
  - BICSI Member: $200
  - Nonmember: $300
- **Half-Day**
  - BICSI Member: $100
  - Nonmember: $150

**Exhibit Hall Visitor Passes**

Exhibit Hall Visitor passes for entrance into the virtual exhibit hall are available at no charge. This will allow access into the virtual exhibit hall to view exhibit booths, have live chats with exhibitors and gather information and files in a swag bag. Visit bicsi.vfairs.com to register for your Exhibit Hall Visitor Pass.

**Continuing Education Credits**

Conferences are an ideal time to earn the continuing education credits (CECs) needed for certification renewal. A BICSI credential holder that attends the Fall Conference will be awarded a total of 16 CECs. In addition, the event satisfies the RCDD conference attendance requirement. Additional CECs can be earned by registering separately for one or more Pre-Conference Masterclasses and/or Pre-Conference virtual training classes.

All CECs earned from attending the Fall Conference and/or Pre-Conference events will appear on your transcript approximately 30 business days after the conference. For complete CEC information, visit bicsi.org/fallcecs.

**About BICSI**

BICSI is a professional association supporting the advancement of the information and communications technology (ICT) profession and currently serves more than 26,000 members and credential holders. BICSI is the preeminent resource for the Connected World. Headquartered in Tampa, Florida, USA, BICSI membership spans nearly 100 countries.
Why Attend the 2020 BICSI Virtual Fall Conference?

**Completely Immersive**
Experience the full conference: attend educational sessions and keynotes where subject matter experts will discuss the latest trends in ICT, including 5G, Power over Ethernet (PoE), Smart Cities, the Internet of Things, and more. You’ll also be able to spend time networking with other virtual attendees and explore the interactive Exhibit Hall without any distractions.

**Exciting Exhibits at Your Fingertips**
You are just a few clicks away from the latest technologies and advancements in ICT with the virtual Exhibit Hall. Many top names in ICT innovations will be available for you to interact with to learn more about their products and services.

**Attend More Sessions**
Livestreamed sessions are recorded, so you can watch sessions you may have missed up to 30 days after the event—more ICT education on demand adds even more value to your conference registration.

**Continuous Global Networking**
Share ideas and observations one-on-one or group chat with ICT professionals from around the world, even during live-streamed presentations.

**Virtual Games**
When attending the educational sessions and interacting in the Exhibit Hall, be on the lookout for gaming opportunities to win real prizes.

**No Travel Time or Expenses**
Save valuable travel time and money when you eliminate gas, plane fare and hotel expenses.

**Convenient and Safe**
Attend from the comfort and safety of your home or office with just your computer, webcam and headset or speakers.
Thank You to Our 2020 Fall Virtual Conference & Exhibition Sponsors

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CORNING HILTI

SUMITOMO ELECTRIC LIGHTWAVE

Don’t Miss ICT Field of Vision Presentations from:

SUMITOMO ELECTRIC LIGHTWAVE

COMMSCOPE CORNING