CABA Intelligent Buildings Council (IBC)
Draft Meeting Minutes
Wednesday, May 13, 2020
12 NOON - 1:30 PM (ET) via Webinar

IBC Executive:
IBC Chair, Trevor Nightingale (National Research Council)
IBC Vice-Chair, Bob Allan (The Siemon Company)
IBC Vice-Chair, Harsha Chandrashekar (Honeywell International Inc.)
IBC Vice-Chair, Robert Lane (Robert H. Lane & Associates Inc.)
IBC Vice-Chair, Terrence DeFranco (Iota Communications, Inc.)

Present:
2030 Districts Network, Jiri kopek
ABB, Inc., Frank Taaning Grundholm
ABB, Inc., John Leraci
ABB, Inc., Julie Petrone
ABB, Inc., Mohammad Sami Shaikh
Acuity Brands, Inc., Chris Powell
Acuity Brands, Inc., Tucker Boren
Adaptive Networks, Inc., Michael Propp
Albireo Energy, LLC, David Bell
Albireo Energy, LLC, George West
Albireo Energy, LLC, Jacob Hogan
Albireo Energy, LLC, Jake Czerwin
Albireo Energy, LLC, Jason Richards
Albireo Energy, LLC, Mark Nemec
Albireo Energy, LLC, Phil Rogers
Albireo Energy, LLC, Roger Jones
Albireo Energy, LLC, Tony Tarara
Albireo Energy, LLC, Vince Koren
Alea Labs, Inc, Hamid Farzaneh
Alertus Technologies, Joe Nixon
Artimar, Mauricio Jancic
ASE Smart Energy, Antoine Karam
Automated Logic, Mead Rusert
Automated Logic, Troy Maeder
AutomatedBuildings.com, Ken Sinclair
FTDI Chip, James Adams
Fullerton Engineering Consultants, Inc., Abraham Rokach, S.E., P.E.
Functional Devices, Inc., Angie Jarvis
GAVO COMMUNICATIONS, Jeffrey Gavin
GENENTECH, David Smith
Government of Alberta, Benigno Rojas-Moreno
Growing Green Buildings, Kevin McPhee
HGA Architects and Engineers, Brad Kult
HiberSense, Inc., Bob Fields
Home Innovation Research Labs, Elina Thapa
Honeywell International Inc., Deepika Garg
Honeywell International Inc., Kevin Graebel
Honeywell International Inc., Paul Kavanagh
Honeywell International Inc., Sathish Nanjapp
IBI Group, Nathalie Waelbroeck
I-CON Systems, Inc., Adam Kane
iDeon Consulting, LLC, Randy Storch
IMEG Corp., Jeff Carpenter
Inmigrandi, Patricio Carranza
Integrated Building Design Engineering, Gary Shamshoian
Integrated Network Concepts, Anthony Veri
Intelligent Building Consultants, Mathew Thekottil
Intelligent Buildings, LLC, Tom Shircliff
Iota Communications, Inc., Terrence DeFranco
IRON DOG Inc., Gord Gamble
Johnson Controls Inc., Ed Shail
KCL Engineering, Kristopher Kunze
Kele, Inc., Richard Campbell
Ken Wacks Associates, Ken Wacks
KMC Controls, Inc., Jason Mills
L&T Technology Services Limited, Hari Natarajan
Lawrence Berkeley National Laboratory (LBNL), Guanjing Lin
LONG Building Technologies, Inc., Blake Standen
LonMark International, Ron Bernstein
LumenRadio, Maciej Oldziej
LumiFi, Beatrice Witzgall
Lutron Electronics Co., Inc., Matt Ochs
Lutron Electronics Co., Inc., Yogi Gopalan
Lynspring, Inc., Marc Petock
METZ CONNECT USA, Inc., Hugh Daly
MHC Services LLC, Tom Durkin
Modern Niagara Group Inc, Pranjal De
National Association of Home Builders (NAHB), Anna Stern
National Electrical Manufacturers Association (NEMA), Kirk Anderson
National Research Council Canada (NRC), Brad Kelly
National Research Council Canada (NRC), Guy Newsham
1. **Agenda** - Greg Walker (CABA)

   Greg Walker (CABA) thanked everyone for attending, outlined the agenda and alerted everyone that the meeting was being recorded and will be made available to the industry.

2. **Call to Order, Welcome and Introduction** - Trevor Nightingale (National Research Council)

   CABA Board member and IBC Chair, Trevor Nightingale (National Research Council) welcomed everyone and introduced: IBC Vice-Chair Bob Allan (The Siemon Company), IBC Vice-Chair Harsha Chandrashekar (Honeywell International Inc.), IBC Vice-Chair Robert Lane (Robert H. Lane & Associates Inc.), IBC Vice-Chair Terrence DeFranco (Iota Communications, Inc.), IBC White Paper Sub-Committee Chair Ken Wacks (Ken Wacks Associates) and the Keynote Speakers, Ken Sinclair (AutomatedBuildings.com), Marc Petock (Lynxspring, Inc.), Tom Shircliff (Intelligent Buildings, LLC) and Ron Tellas (Belden Inc.). Trevor also outlined the role of the IBC.
3. **Administrative** - Trevor Nightingale (National Research Council)

3.1 Motion to approve Past IBC Minutes

Trevor Nightingale (National Research Council) informed everyone that the meeting minutes from the February 19, 2020 IBC meeting were circulated and were posted on the CABA website in the IBC section: [www.caba.org/ibc](http://www.caba.org/ibc).

Motion to approve the February 19, 2020 IBC minutes was moved by Bob Allan (The Siemon Company) and the motion was seconded by David Katz (Sustainable Resources Management Inc.). Unopposed motion passed.

4. **“The Impacts of COVID-19 on Intelligent Buildings” (30 min)** - Ken Sinclair (AutomatedBuildings.com), Marc Petock (Lynxspring, Inc.), Tom Shircliff (Intelligent Buildings, LLC), Ron Tellas (Belden Inc.) (30 - 40min)

Abstract: This panel will share observations and predictions from key thought leaders on the impacts of Covid-19 on intelligent buildings. Ken Sinclair (AutomatedBuildings.com) will be moderating the panel and will discuss how being resilient and making people count will need to be part of our "global reboot". Marc Petock (Lynxspring, Inc.) will discuss the new realities that building owners, integrators, contractors and solution providers face. Tom Shircliff (Intelligent Buildings, LLC) will discuss the new challenges for building contractors and systems, leading to new risks for owners, managers and occupants. Ron Tellas (Belden Inc.) will discuss if the pandemic will serve as a change agent, transforming the way we use technology. [CLICK HERE](http://www.caba.org/ibc) to access the recorded presentation and PowerPoint slides.

5. **Research Update** - Trevor Nightingale (National Research Council), Greg Walker (CABA)

5.1 2019 IBC Landmark Research “Evidence for Building Retrofits that Improve Organizational Productivity (Phase 2)” - Trevor Nightingale (National Research Council)
The CABA Board of Directors selected “Evidence for Building Retrofits that Improve Organizational Productivity (Phase 2)” as the 2019 IBC Landmark Research Project. Trevor Nightingale (National Research Council) gave a brief overview of the project. Due to the importance of this research, the CABA Board of Directors unanimously decided that the full research would be made freely available to the entire industry once it is completed. CLICK HERE to download the full Phase 1 research report and presentation.

This is a **$200K, fully-funded research** project with generous support from CABA, the National Research Council (NRC) and 14 other CABA organizations. CABA is currently seeking organizations that may be interested in providing anonymized building and human resource data for this research. Do you know of a building(s) that might qualify for this research? There is no cost involved. **We need this building and human resource data within 3 months, or the research project will be cancelled.**

Contact Greg Walker, CABA Research Director, at walker@caba.org, if you know of a building that might qualify for the research. CLICK HERE for more information.

Fifteen (15) CABA members have already joined this research project:
5.2 2020 IBC Landmark Research “Intelligent Building Energy Management Systems” - Greg Walker (CABA)

Greg Walker (CABA) gave a brief overview of this 2020 IBC Landmark Research Project, “Intelligent Building Energy Management Systems”. CABA and the IBC are still actively seeking funders for this research. Only the funders will receive the full $130,000 of research. To receive this research and become a funder, please contact Greg Walker (CABA) at walker@caba.org. CLICK HERE for the full research prospectus and webinar recording explaining the project.

Fifteen (15) CABA members have already agreed to help fund this research project:

6. White Paper Sub-Committee Update - Ken Wacks (Ken Wacks Associates)

An overview was given of the IBC White Paper review process, completed IBC White Papers and papers in progress. IBC White Papers are secondary literature review articles that are approximately 10-20 pages in length. These papers are written and distributed free of charge to inform the industry. In order for the papers to be approved by the IBC White Paper Sub-Committee (WPSC), they must have significant technical material of relevance to IBC members - they must not contain marketing material or promote an agenda.
Any CABA member can and is encouraged to bring forward a one (1) paragraph White Paper proposal to the WPSC. If needed, CABA will secure a writer and/or a working group for the paper. All completed and approved IBC White Papers are placed in the CABA Public Library, Members Library, CABA NewsBrief, CABA Twitter Feed, CABA LinkedIn Group and promoted at industry events. To view the IBC White Paper terms of reference, previous IBC White Papers and additional information, please go to: www.caba.org/ibc. All completed CABA White Papers, and those under development, can be found at: www.caba.org/whitepapers.

IBC White Paper Sub-Committee:
Ken Wacks Associates, Kenneth Wacks
Consultant, Brittany Hack
Consultant, Steve Samson
Frost & Sullivan, Dilip Sarangan
Intelligent Buildings Europe, Nikiforos Panorios
National Research Council Canada (NRC), Heather Knudsen
Public Services and Procurement Canada, Marek Dziedzic
Siemens Industry, Inc., Raphael Imhof
Sustainable Resources Management Inc., David Katz

If you or someone that you know would like to join one (1) or more of the following White Paper working groups, please contact Greg Walker (CABA) at walker@caba.org.

6.1 Recently Completed:

“The Evolution of Integrating LiFi Technology into Smart Lighting and Control Systems for the Intelligent Building”
Ken Wacks (Ken Wacks Associates) gave an overview of this paper.
Working Group
Wharton County Junior College (Chair)
Acuity Brands, Inc.
ArcoLogix LLC
SnapAV
Ken Wacks Associates
National Electrical Manufacturers Association
Telecommunications Industry Association (TIA)

6.2 In Progress:

“Energy Metering and Power Quality Metering in North America”
Ken Wacks (Ken Wacks Associates) gave an overview of this paper.
Working Group
EZ Meter Technologies (Chair)
ARC Advisory Group
ArcoLogix LLC
Asian Institute of Intelligent Buildings (AIIB)
Axis Lighting Inc.
Brainwave Research Corp.
CMG Consulting LLC
Compass Intelligence, LLC
Convergint Technologies Ltd
CopperTree Analytics Inc.
Current, powered by GE
Cyber Power Systems, Inc.
Domotz
Enercare Connections Inc.
Honeywell International Inc.
Ken Wacks Associates
Public Services and Procurement Canada
Renesas Electronics America Inc.
Robert H. Lane & Associates Inc.
Schneider Electric
Sustainable Resources Management Inc.
Triacta Power Solutions LP
Zinwave

“Multi-MHz Wireless Power Transfer and Its Commercial Applications”
Ken Wacks (Ken Wacks Associates) gave an overview of this paper.

Working Group
University of Michigan-Shanghai Jiao Tong University Joint Institute (Chair)
Princeton University (Chair)
AirFuel Alliance
Ken Wacks Associates

“Impacts of Automated Shading in Building Projects”
Ken Wacks (Ken Wacks Associates) gave an overview of this paper.

Working Group
TRC Energy Services (Chair)
Axis Lighting Inc.
Draper, Inc.
Ecotay Inc.
Ken Wacks Associates
Lawrence Berkeley National Laboratory (LBNL)
Lutron Electronics Co., Inc.
Mecho
NYSERDA (New York State Energy Research and Development Authority)
PLC-Multipoint, Inc.
Screen Innovations
Somfy Systems, Inc.
Sustainable Resources Management Inc.
7. **New Business** - Trevor Nightingale (National Research Council)

7.1 **Growth Opportunity Trends and Diagnostic Session with Frost & Sullivan**

Lauren Taylor (Frost & Sullivan) presented a new CABA Member benefit, provided by Frost & Sullivan. A continuous flow of aligned growth opportunities for companies operating in the built environment is essential. Find out how your organization compares to others in the industry by taking advantage of this complimentary “members-only” opportunity from research firm Frost & Sullivan. As part of this benefit, CABA held a webinar led by F&S that discussed trends driving growth and innovation for the built environment, with a focus on those supporting rebound and re-entry strategy, and delivering to the future workplace. The presentation was followed with a live growth diagnostic completed by all attendees that enable participants to gain visibility into the strength of their organization's growth pipeline. If you would like to take advantage of this opportunity contact CABA at caba@caba.org.

7.2 **Cyber Security 4 Building Management Systems Conference (virtual online), June 23-24, 2020**

Greg Walker (CABA) mentioned that Ron Zimmer (CABA) presented at this virtual conference. Some of the key topics discussed include maturity, supply chain, asset inventory, changing culture, integrating cybersecurity by design, vulnerability assessments, IoT security, IT/OT convergence and threat remediation.

7.3 **Other new IBC business?**

Trevor Nightingale (National Research Council) made a call for new business such as: future IBC Guest/Keynote presentation topics and speakers, new IBC White Papers, new research projects and meeting ideas, etc. He also indicated that the next IBC meeting will be held August 2020 with details to be forwarded in the near future.

8. **Adjournment** (1:30 PM ET) - Trevor Nightingale (National Research Council)

   [Next IBC Meeting, August 2020]
CABA IBC meetings are open to CABA Members and invited guests, and everyone is encouraged to participate. CLICK HERE for more info on the IBC, past minutes, participants and terms of reference. Any CABA Member that attended as a guest will be added to the IBC, unless they notify the CABA office by June 15, 2020 that their name should not be added. Non-CABA members that attended this meeting as a guest, should contact Greg Walker, CABA Research Director, to indicate if they wish to join the IBC or CABA. CLICK HERE for more information on the 25 CABA Benefits.

Regards,

Greg Walker
CABA Research Director
Continental Automated Buildings Association (CABA)
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Phone: 613.686.1814 x227
Website: http://www.caba.org

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