



**CABA Intelligent Buildings Council (IBC)
Draft Meeting Minutes**

Monday, November 25, 2019
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 Skopek
Acuity Brands, Inc., Tucker Boren
Affiliated Engineers SE, Inc. (AEI), Gary Rodgers
Agora Communications, Marketing and Expos, David Valle
ArcoLogix LLC, Leila Anne Breene
ARUP, Dan Michaud
Baker Electric Home Energy, Joseph Carangelo
BELIMO Automation AG, Dennis Johannesen
Brainwave Research Corp., Rene Pardo
CABA, Greg Walker
CABA, Ron Zimmer
CABA, Sashien Godakandae
CAIL, Lindsay Pick
Calderwood Automation, Jonathan Da Silva
Cimetrics, Inc., Anto Budiardjo
CLEAResult, Madeline Caldwell
CM&B (Construction Management & Builders Inc.), Bobby Trickett
CMG Consulting LLC, Andres Carvalho
CommScope, Inc., Ronna Davis
CSA Group, Dwayne Torrey
CSA Group, Laura Elan
CSA Group, Parag Phalak
Cyber Power Systems (USA), Inc., Dan Niewirowicz
Daikin Applied Americas Inc., Jared Swanson

Delta Controls, A Delta Group Company, Kurt Graves
DesignLights Consortium, Dorene Maniccia
Dimension Data, Wolf Stinnes
DPR Construction, Kyle Shipp
Droplit, Inc., David Warner
Eagle Technology, Inc., Harshad Shah
Ecovena, Trevor Boicey
Ei Electronics US, Inc., Barry Donahoe
EMBARC.biz LLC, James Leveille
EMerge Alliance, Brian Patterson
Environmental Systems Design, Inc., Steve Brown
ERG Energy Efficiency, Michael Dabbene
Evergreen Consulting Group, Eric Wilson
Evolved Lighting Solutions, Zack Griffin
exp. US Services, Inc., Chris Larry
exp. US Services, Inc., Tom Lohner
ExteNet Systems, Inc., Ron Scott
Facillitee, Inc., Damien Condo
Fluke Networks, Jim Davis
Frost & Sullivan, Maurice Okawaki
FUJITSU Limited, Robert Selby
GE Current, a Daintree company, Jeremy Yon
Ghafari Associates, Shannon Reichow
Haynes Mechanical, Jason Kiper
ICONICS, Inc., Russ Agrusa
IDEAL INDUSTRIES (CANADA), CORP., Robert Zadeh
IMEG Corp., Jeff Carpenter
Jasco Products Company, David Aguilar
Kele, Inc., Richard Campbell
Ken Wacks Associates, Ken Wacks
Kode Labs, Tavis Kerr
L.V.I.C.T. SOLUTIONS INC., Denis Caglayan
Layer Zero Services, Chris Frazer
Legrand, Harold Jepsen
Mohawk College, Frank Mesicek
National Research Council (NRC), Luc Pellerin
National Research Council (NRC), Trevor Nightingale
Natural Resources Canada (NRCan), Meli Stylianou
Neovate Innovation Projects, Jos Bruins
NIST (National Institute of Standards & Technology), Sokwoo Rhee
NV5, Barry Bridges
OcubeC, Tak Nishida
Olivia Property Management & Real Estate Development LLC, Alex Orozco
Origen FM Services Inc., Wayne Collins
Panduit Corp., Michael Vermeer
Procon Consulting, John Mackay

RBCG, LLC, Ron Bernstein
RF Connect LLC, Jeff Hipchen
RIDC (Regional Industrial Development Corporation), Christopher Pinelli
Robert H. Lane & Associates Inc., Robert Lane
Serviceworks Group, Mark Thomas
Siemens Industry, Inc., Dan Kubala
Siemens Industry, Inc., David Thurow
Siemens Industry, Inc., Hans Langels
Siemens Industry, Inc., Paul Jaworski
Siemens Industry, Inc., Pornsak Songkakul
Siemens Industry, Inc., Richard Rivera
Signify, Andrew Prevost
Smart Pixel TV, David Abboud
Ssmartec Business Solutions Inc, Alex Sayegh
Strato Automation, Michel Lemieux
Sustainable Resources Management Inc., David Katz
Sustainable Resources Management Inc., Philip Ju
Switch Automation Inc., Peter Rake
Target Corporation, Shane Schroeder
Telecommunications Industry Association (TIA), Harry Smeenk
Telecommunications Industry Association (TIA), Jacques Fluet
Telecommunications Industry Association (TIA), Limor Schafman
Telecommunications Industry Association (TIA), Marta Soncodi
TELUS, Dasola Oluge
TELUS, Richard Yanciw
The Clariant Group, Charlie Buscarino
The International Society of Automation (ISA), Andre Ristaino
The Siemon Company, Bob Allan
Transducers Direct LLC, Andy Lamping
UL LLC, Adam Lilien
UL LLC, Dustin Steward
University of Maryland, Qingbin Cui
Waveguide Consulting Inc., Scott Walker
WINNIIO, Nicolas Waern
Zinwave, Allen Dixon

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, Jiri Skopek (2030 Districts Network), Limor Schafman (Telecommunications Industry Association, TIA) and Ronna Davis (CommScope, 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 September 3, 2019 IBC meeting were circulated and were posted on the CABA website in the IBC section: www.caba.org/ibc.

Motion to approve the September 3, 2019 IBC minutes was moved by Bob Allan (The Siemon Company) and the motion was seconded by Chris Larry (exp. US Services, Inc.). Unopposed motion passed.

4. “Powering Digital Transformation in Smart Buildings” (30 min) - Limor Schafman (Telecommunications Industry Association, TIA), Jiri Skopek (2030 Districts Network) and Ronna Davis (CommScope, Inc.).



Limor Schafman
Senior Director, Smart Buildings Program
TIA (Telecommunications Industry Association)



Jiri Skopek
Vice-chair
2030 Districts Network



Ronna Davis
Strategy and Technology Team
- Building and Campus
CommScope, Inc.



Abstract: This presentation will discuss the “Smart Buildings Super Cluster (SBSC)” as part of the NIST (National Institute of Standards and Technology) Global City Teams Challenge. [CLICK HERE](#) for more information.

Jiri Skopek (2030 Districts Network), Limor Schafman (Telecommunications Industry Association, TIA) and Ronna Davis (CommScope, Inc.) gave a 30 minute presentation on “Powering Digital Transformation in Smart Buildings”. [CLICK HERE](#) to access the recorded presentation and PowerPoint slides.

5. CABA Smart Building Summit (SBS) - Ron Zimmer (CABA)

Ron Zimmer (CABA) gave an overview of the upcoming CABA Smart Building Summit (SBS) which will be held May 3-5, 2020 at the Sawgrass Marriott Resort & Spa, Ponte Vedra Beach, FL. CABA has partnered with AGORA to produce this event, bringing together over 100 VIP “By Invitation Only” Building Industry Senior Executives representing the most innovative companies in the Smart Building Industry. Andres Carvallo (CMG Consulting LLC) gave a strong testimonial of past Agora Summits and encouraged anyone who is interested to contact Sashien Godakandae at godakandae@caba.org. [CLICK HERE](#) for more information.

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

6.1 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.

Phase 2 will deploy the productivity frameworks from Phase 1 using partner-supplied human resources and real-estate data to demonstrate the value of specific building features and technologies. If you would like to know more about Phase 2 of the research or would like to join Phase 2, please contact Greg Walker (CABA) at walker@caba.org. [CLICK HERE](#) to download a webinar recording explaining the project.

Fourteen (14) CABA members have already joined this research project:



6.2 2020 IBC Landmark Research Topic? - Greg Walker (CABA)

Greg Walker (CABA) made a call for new intelligent building research topics for the upcoming 2020 IBC Landmark Research. A short list of topics will be created and sent to the CABA Board of Directors to make the final selection. The topic will be selected by the end of 2019. The Request for Proposal (RFP) will go out the last week of December 2019 or the first week of January 2020, allowing three (3) weeks to respond. David Katz (Sustainable Resources Management Inc.) proposed Digital Twins, Chris Larry (exp. US Services, Inc.) proposed 5G and Tom Lohner (exp. US Services, Inc.) proposed cybersecurity. The IBC were instructed to contact Greg Walker (CABA) at walker@caba.org with their recommendations by December 6, 2019.

7. 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.

7.1 Recently Completed: None

7.2 In Progress:

“Energy Metering and Power Quality Metering: Energy Management and Billing Services for Commercial, Institutional, Multi-Family, and Industrial Applications”

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

“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
Control4
Ken Wacks Associates
National Electrical Manufacturers Association
Telecommunications Industry Association (TIA)

“The Ethics of AI and the IoT Connected Home and Intelligent Buildings”

Ken Wacks (Ken Wacks Associates) gave an overview of this paper.

Working Group

ArcoLogix LLC (Chair)
Enbridge Gas Inc.
George Brown College
Hydro One Networks Inc.
Ken Wacks Associates
Site 1001, Inc.
Sustainable Resources Management Inc.
Syska Hennessy Group, Inc.
Telecommunications Industry Association (TIA)
University of Toronto

8. New Business - Greg Walker (CABA)

Greg Walker (CABA) 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 late January, 2020 or early February, 2020 with details to be forwarded in the near future.

9. Announcements - Ron Zimmer (CABA) (CABA)

9.1 Past Events Overview:

- [Shanghai Intelligent Building Technology, Sept 3-5, Shanghai, China](#)
- [SCTE-ISBE Cable Tec Expo, Oct 13-16 New Orleans, LA](#)
- [IFMA's World Workplace Conference & Expo, Oct 16-18, Phoenix, AZ](#)
- [Smart Utility Summit, Oct 27-29, Phoenix, AZ](#)
- [CoRETECH 2109, Nov 13-15, San Jose, CA](#)
- [Greenbuild International Conference and Expo 2019, Nov 19-22, Atlanta, GA](#)

9.2 Upcoming Events:

- [CABA AGM, Dec 5, via Webinar](#)
- [The AHR Expo, Feb 3-5, Orlando, FL](#)
- [2020 CABA Smart Buildings Summit \(SBS\), produced by AGORA, May 3-5, 2020, Ponte Vedra, FL](#)

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

[Next IBC Meeting, late January / early February](#)

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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 December 20, 2019 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)
Email: walker@caba.org
Phone: 613.686.1814 x227
Website: <http://www.caba.org>

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