



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

Wednesday, January 30, 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.)

Present:

360 Energy Group, LLC, Paula Debkowska
Alea Labs, Inc, Brad Landthorn
American Institute of Steel Construction (AISC), Katherine Quigg
Automated Fenestration Inc., Aldo Trinidad
Azteca Controls, S.A. de C.V., Enrique Mora
Bechtel Corporation, John Fisher
Bechtel Corporation, Virajita Dankar
Belimo Americas, Michael Knipple
Belimo Americas, Vic Coppola
BSRIA Inc., Aanal Bhagat
BSRIA Inc., Lone Hansen
Building Energy Innovators Council (BEIC), Jonathan Morier
CABA, Andrew Glennie
CABA, Ron Zimmer
CBRE, Inc., Mark Lambert
Cimetrics, Inc., Anto Budiardjo
Colliers International, Tony Kern
CSA Group, Stephen Brown
Current, powered by GE, Jeremy Yob
Current, powered by GE, JP Camardo
Cutting Edge Drapery, Gavin Garze
Distech Controls Inc., An Acuity Brands company, Kevin Ridder
eMcRey, Marc Lacroix
ESTEVEZ, Ricardo Soto
exp US Services, Inc., Chris Larry

exp US Services, Inc., Tom Lohner
Frost & Sullivan, Maurice Okawaki
HELLA Sonnen- und Wetterschutztechnik GmbH, Robert Weitlaner
Honeywell International Inc., Greg Bernhardt
Honeywell International Inc., Harsha Chandrashekar
IBI Group, Carl-Henry Piel
IBI Group, Roger Woods
International Facility Management Association (IFMA), Nickalos Rocha
JLL, Jiri Skopek
Ken Wacks Associates, Kenneth Wacks
Kontagion Hub Limited, Antonio Mendonca
LaneWorks, LLC, Becky Lane
Lawrence Berkeley National Laboratory (LBNL), Stephen Selkowitz
Legrand, Jon Null
Legrand, Shana Longo
Light Stanza, Daniel Glaser
Lutron Electronics Co., Inc., Andrew Arencibia
Lutron Electronics Co., Inc., Michael Jouaneh
Lutron Electronics Co., Inc., Yogi Gopalan
National Research Council, Natalia Cooper
National Research Council, Trevor Nightingale
Navigant Research, Neil Strother
New Buildings Institute (NBI), Alexi Miller
New York State Energy Research and Development Authority (NYSERDA),
Robert Carver
NTNU, Biljana Obradovic
Ottawa Renewable Energy Co-op (OREC), Janice Ashworth
Oviku Ltd, Tomi Ek
PointCentral, Isaac Murakami
RetroLux, Brett Adler
Robert H. Lane & Associates Inc., Robert Lane
Rogers Communications Inc., Gerry Thompson
Siemens Industry, Inc., Bonnie Brook
Siemens Industry, Inc., Hans Langels
Siemens Industry, Inc., Paul Turnbull
Siemens Industry, Inc., Roberto torres
Site 1001, Lauren Long
Smith + Andersen, Lana MacInnes
Solbright Group, Inc., Michael Davies
Somfy Systems, Inc., Justin Fransila
Southwire Company, LLC, Yuhsin Hawig
Stantec Consulting Ltd., Gary Rodgers
Sustainable Resources Management Inc., David Katz
Switch Automation Inc., Peter Rake
TelNet Management Consulting, Inc., Fawzi Behmann
TELUS, Danny Sran

TELUS, Dasola Oluge
Touch Display Research Inc., Jennifer Colegrove
UL LLC, Brian Ferriol
UL LLC, Dustin Steward
UL LLC, Kevin Wu
Verdantix Ltd, Derrek Clarke
Vistar Energy Consulting, Mudit Saxena
Window Products Management, John Edwards
WiredScore, John Meko

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) informed everyone he will have to leave at 1PM ET and either Robert Lane (Robert H. Lane & Associates Inc.) or Greg Walker (CABA) will chair the last 30 minutes of the meeting. Trevor Nightingale (National Research Council) welcomed everyone and introduced: IBC Vice-Chair Robert Lane (Robert H. Lane & Associates Inc.), Bob Allan (The Siemon Company), IBC Vice-Chair Harsha Chandrashekar (Honeywell International Inc.), IBC White Paper Sub-Committee Chair Ken Wacks (Ken Wacks Associates) and the Keynote Speakers, Mudit Saxena (Vistar Energy Consulting), Justin Fransila (Somfy Systems, Inc.) and John Edwards (Window Products Management). 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 November 1, 2018 IBC meeting were circulated and were posted on the CABA website in the IBC section: www.caba.org/ibc.

Motion to approve the November 1, 2018 IBC minutes was moved by Robert Lane (Robert H. Lane & Associates Inc.) and the motion was seconded by Harsha Chandrashekar (Honeywell International Inc.). Unopposed motion passed.

4. “Impacts of Automated Shading in Building Projects” (30 min) - Mudit Saxena (Vistar Energy Consulting), Justin Fransila (Somfy Systems, Inc.) and John Edwards (Window Products Management)



Justin Fransila
Architectural Specification
Manager
SOMFY SYSTEMS, INC.



Mudit Saxena
Principal, Founder
Vistar Energy Consulting



John N. Edwards
Principal
Window Products Management



Abstract: The development of building facades continues to evolve with more dynamic and energy efficient solutions, including automated window coverings. Automated shading has evolved over time with building facade construction and is encouraged in early stages of building design to improve energy performance and occupant comfort. Automation removes the human interaction previously required with manual shading systems and automatically reacts to weather conditions or scheduled events so that shading systems offer the practical benefits they’re designed to provide. Occupants benefit from reduced glare, controlling natural light and an overall more comfortable environment. Systems are designed to optimally perform based on location and other integrated building systems including HVAC and lighting to provide the most energy efficient building performance.

Harsha Chandrashekar (Honeywell International Inc.) introduced Mudit Saxena (Vistar Energy Consulting), Justin Fransila (Somfy Systems, Inc.) and John Edwards (Window Products Management) and outlined their experience. Mudit, Justin and John gave a 30 minute presentation on “Impacts of Automated Shading in Building Projects”. [CLICK HERE](#) to access the recorded presentation and PowerPoint slides.

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

5.1 “Monetization of Intelligent Buildings” Update – Greg Walker (CABA)



Greg Walker (CABA) gave brief overview of the \$150,000 US 2018 IBC Landmark Research Project, “Monetization of Intelligent Buildings”. This important research project had 22 funders and the research was successfully completed by Harbor Research Inc. All CABA members have received an Executive Summary and it has also been posted in the CABA Members Library. This \$150,000 research project is now available to CABA members for only \$4,900. For more information please contact Greg Walker (CABA) at walker@caba.org. [CLICK HERE](#) for the full research prospectus and webinar recording.

Twenty-two (22) CABA members funded this research:



Only the funders and those who purchase the research received the full research report.

5.2 2019 IBC Landmark Research “Improving Organizational Productivity with Building Automation Systems – Phase 2” - Trevor Nightingale (National Research Council)



The CABA Board of Directors selected “Improving Organizational Productivity with Building Automation Systems – Phase 2” as the 2019 IBC Landmark Research Project. Trevor Nightingale (National Research Council) gave a brief overview of this research project. Due to the importance of this research, the CABA Board of Directors unanimously decided to release the full research for free 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. More information on Phase 2 of this project will be posted shortly [HERE](#).

CABA members currently signed up to support Phase 2 of this 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 contain significant technical material of relevance to IBC members – it must not contain marketing material or promote an agenda. Any

CABA member can and is encouraged to bring forward a 1-2 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 these 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:

“Human Skin Cells: A Potential Source of Building Contaminants”

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

Working Group

Environmental Diagnostics Laboratory (EDLab) at Pure Air Control Services, Inc.

6.2 In Progress:

“Impacts of Automated Shading in Building Projects”

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

Working Group

Somfy Systems, Inc. (Chair)

Axis Lighting Inc.

Ecotay Inc.

Hunter Douglas

Ken Wacks Associates

Lawrence Berkeley National Laboratory (LBNL)

Legrand

Lutron Electronics Co., Inc.

Mecho
NYSERDA (New York State Energy Research and Development Authority)
PLC Multipoint, Inc.
Screen Innovations
Siemens Industry, Inc.
Sustainable Resources Management Inc.
"TRC Energy Services"
Vistar Energy Consulting
Window Products Management

“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)
ArcoLogix LLC
Asian Institute of Intelligent Buildings (AIIB)
Brainwave Research Corp.
CMG Consulting 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

“Automated Control Systems for Zero Emission Buildings”

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

Working Group

Ecotay Inc. (Chair)

“IoT Cyber Security Guidelines, Standards and Verification Systems”

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

Working Group

BC Hydro (Chair)
AgeLight LLC

ARC Advisory Group
ArcoLogix LLC
CANASA (Canadian Security Association)
CEDIA
Cimetrics, Inc.
Compass Intelligence, LLC
Consultant
Control4
CopperTree Analytics Inc.
CSA Group
Current, powered by GE
Domotz
eMcRey
exp US Services, Inc.
George Brown College
Honeywell International Inc.
Internet Society
Johnson Controls Inc.
Ken Wacks Associates
LonMark International
National Electrical Manufacturers Association (NEMA)
RYCOM Inc.
SPARQ Global
Sustainable Resources Management Inc.
Syska Hennessy Group, Inc.
TC9, Inc
The International Society of Automation
The Siemon Company
TrustCentral
TwelveDot Inc.
UL LLC

7. New Business – Andrew Glennie (CABA), Greg Walker (CABA)

7.1 New CABA Member Benefit: CABA Information Council (CIC) - Andrew Glennie (CABA), Kenneth Wacks (Ken Wacks Associates)

Andrew Glennie (CABA) and Kenneth Wacks (Ken Wacks Associates) CIC Chairman, gave an update of this CABA Member Benefit. The CABA Information Council identifies and reviews white papers and research for the CABA Information Series, the most authoritative source for technical information in the home and large building automation sectors. CABA Information Series reports are published both in the CABA Public Research Library and the CABA Member Research Library. [CLICK HERE](#) for more information.

7.2 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 in January, details will be forwarded in the near future.

8. **Announcements** – Ron Zimmer (CABA)

8.1 Past Events Overview:

- [Greenbuild International Conference & Expo, Nov 14-16, Boston, MA](#)
- [AHR EXPO HVACR Trade Show, Jan 14 – 16, Chicago, IL](#)

8.2 Upcoming Events:

- [DistribuTECH Feb 5 – 7, San Antonio, TX](#)
- [International Wireless Communications Expo \(IWCE\), Mar 4-8, Las Vegas, NV](#)
- [ISH, Mar 11-15, Frankfurt, Germany](#)
- [ISC West - International Security Conference & Exposition, Apr 10-12, Las Vegas, NV](#)
- [2019 Haystack Connect, May 13-15, San Diego, CA](#)
- [Internet of Things World, May 13-16, Santa Clara, CA](#)
- [LIGHTFAIR International 2019, May 21-23, Pennsylvania, PA](#)
- [Realcomm/IBcon, June 13-14, Nashville, TN](#)
- [CABA Smart Buildings Summit, Sep 15-17, Ponte Vedra Beach, FL](#)

9. **Adjournment** (1:30 PM ET) – Greg Walker (CABA)

[Next IBC Meeting, April](#)

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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 February 14, 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 24 CABA Benefits.

Regards,

Greg Walker

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Website: <http://www.caba.org>

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