



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

Thursday, February 10, 2022
12 NOON - 1:30 PM (ET) via Webinar

IBC Executive:

IBC Acting-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:

ABB, Inc., Julie Petrone
AI Shading, Zack Zhang
AI Shading, Catherine Chow
Aircuity, Inc., Pat Kelly
Armstrong Monitoring, Stephanie Pichette
BC Hydro, Markus Zeller
Belimo Americas, Lisa Hickey
Belimo Americas, Aaron Nobel
Big Sky Research Bureau, Inc., Scot Witt
BSRIA Inc., Lone Hansen
Building Intelligence Group, Ben Wallace
CABA, Conrad McCallum
CABA, Sashien Godakandae
CABA, Marta Klopotoska
CABA, Greg Walker
Cochrane Supply & Engineering, Nicole Conklin
CommScope, Inc., Jane Bradshaw
Convergint Technologies, Andrey Lvov
DesignLights Consortium, Liesel Whitney-Schulte
Eagle Technology, Inc., Harshad Shah
eco-Options Energy Cooperative, David Swan
e-Magic, Inc., Dale Kehler
Energy Metrics LLC, Rajendran Avadaippan
Energy Metrics LLC, Prahlad Balasubramanian
Energy@Work Inc., Lisa Liang
EnergyPal, Ovidiu Sfirloaga
Envio Systems, Roberta Ansuini
exp. US Services, Inc., Chris Larry
Frost & Sullivan, Maurice Okawaki

Homestead Land Holdings, Greg Ropp
Honeywell International Inc., Sathish Nanjappa
Hydro-Quebec, Karine Lavigne
Igor Inc., Kim Johnson
International Facility Management Association (IFMA), Nickalos Rocha
Johnson Controls Inc., Joseph Klotz
Johnson Controls Inc., Arun Vedhathiri
Ken Wacks Associates, Kenneth Wacks
London Hydro, Luke Seewald
Lynxspring, Inc., Marc Petock
Metergy Solutions Inc., Edinna Novales
METZ CONNECT USA, Inc., Hugh Daly
Mohawk College, Frank Mesicek
Multi-Tech Systems, Inc., Daniel Quant
Multi-Tech Systems, Inc., Sean Bellinger
National Research Council Canada (NRC), Natalia Cooper
National Research Council Canada (NRC), Megi Busho
NYSERDA (New York State Energy Research and Development Authority), Jerone Gagliano
NYSERDA (New York State Energy Research and Development Authority), Joseph Borowiec
NYSERDA (New York State Energy Research and Development Authority), Ziggy Majumdar
Origen FM Services Inc., Wayne Collins
Plutinsus, Wolfram Willuhn
Pro-Com Realty Corporation, Tony Provenzano
RYCOM Inc., Ryan Garner
Semtech Corporation, Byron BeMiller
SenseWare, Rosy Khalife
Siemens Industry, Inc., Hans-Joachim Langels
Siemens Industry, Inc., Maria Marks
Siemens Industry, Inc., Richard Rivera
Siemens Industry, Inc., Bonnie Brook
Sodexo Canada Ltd., Daniel Vander Veen
Southwire Company, LLC, Charles Hume
Superior Essex Communications, Brian Ensign
Sustainable Biz Canada, Nicholas Sokic
Sustainable Resources Management Inc., David Katz
TELUS, Jason Antinori
ThoughtWire, Casey Weston
Titanium Intelligent Solutions LLC, Thomas Richards
Watts Water Technologies Inc., Jay Vath

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** - Bob Allan (The Siemon Company)

CABA member and IBC Vice-Chair Bob Allan (The Siemon Company) welcomed everyone and introduced: IBC Vice-Chairs, Harsha Chandrashekar (Honeywell International, Inc.) and Robert Lane (Robert H. Lane and Associates, Inc.). Bob also outlined the role of the IBC.

3. **Administrative** - Bob Allan (The Siemon Company)

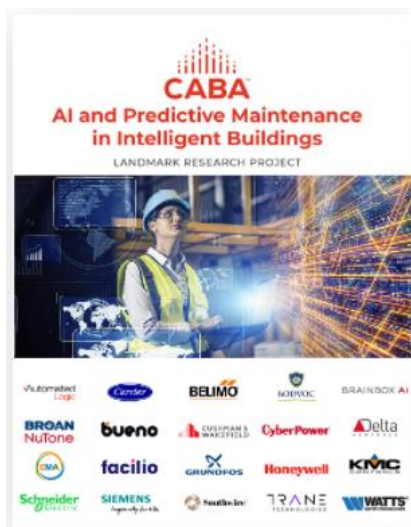
3.1 **Motion to approve Past IBC Minutes**

Bob informed everyone that the meeting minutes from the December 7, 2021, IBC meeting were circulated and were posted on the CABA Web site in the IBC section: www.caba.org/ibc.

A motion to approve the December 7, 2021, IBC minutes was moved by Harsha Chandrashekar (Honeywell International, Inc.), and the motion was seconded by Robert Lane (Robert H. Lane and Associates, Inc.). Unopposed motion passed.

4. **Research Update** - Greg Walker (CABA), Robert Lane (Robert H. Lane and Associates Inc.)

4.1 **2021 IBC Landmark Research “AI and Predictive Maintenance in Intelligent Buildings”** - Robert Lane (Robert H. Lane and Associates Inc.)



Robert gave a brief overview of this 2021 IBC Landmark Research Project, “AI and Predictive Maintenance in Intelligent Buildings”. With this project, only the funders have received the full \$130,000 of research but the Executive Summary of the research has been made available to CABA Members. The full report will be available for sale on April 25, 2022 following a four-month embargo.

Nineteen (19) CABA members funded this research project:



4.2 Annual “BACS Market Sizing North America” - Greg Walker (CABA)

Greg Walker (CABA) gave a brief overview of this annual, invitation-only, market sizing study focusing on building automation control systems. The project is continuing in 2022 and may be expanded to additional field devices and geographical areas.

Eight (8) CABA members have agreed to fund and participate in this research project:



5. **“Environment, Social and Governance in buildings of less than 20,000 sq.ft”** - Harsha Chandrashekar (Honeywell International, Inc.), Rajendran Avadaippan (Energy Metrics)



Rajendran Avadaippan
CEO



Description: ESG is a key industry topic, especially now that firms around the world are taking a pledge towards net zero. While there are multiple ways to be sustainable for large commercial buildings, bringing ESG into buildings of less than 20,000 sq.ft and also avoiding risks at the same time, is a little challenging. The presentation will focus on steps that can be taken to minimize carbon impact on the planet.

Contact Information:

Rajendran Avadaippan: rajendran.avadaippan@energymetricsllc.com

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. 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 complete the new one (1) page white paper proposal template and submit it to klopotoska@caba.org.

All completed and approved CABA 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, Steve Samson
- Frost & Sullivan, Dilip Sarangan
- National Research Council Canada (NRC), Heather Knudsen
- 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 Marta Klopotowska (CABA) at klopotowska@caba.org.

6.1 Recently Completed:

“Bipolar Ionization and its Contribution to Smart and Safe Buildings”

Ken gave an overview of this paper and those in the Working Group.

- Pure Air Control (Chair)

6.2 In Progress:

Ken went on to give an overview of the following in-progress papers.

“Impacts of Automated Shading in Building Projects”

- TRC Energy Services (Chair)
- Axis Lighting Inc.
- Draper, Inc.
- exp. US Services, Inc.
- Ken Wacks Associates
- Lawrence Berkeley National Laboratory (LBNL)
- Legrand North America
- Lutron Electronics Co., Inc.
- Mecho
- NYSERDA (New York State Energy Research and Development Authority)
- PLC Multipoint, Inc.
- Somfy Systems, Inc.
- Sustainable Resources Management Inc.
- Vistar Energy Consulting
- Window Products Management

“Fire Alarm Systems in Buildings”

- Canadian Fire Alarm Association (Chair)
- AML Encore Corp./Canadian Fire Alarm Association
- exp. US Services, Inc.

“Architecting Intelligent Self Learning Adaptive Smart Campus Framework for Smart Cities”

- NAVTAT Solutions (Chair)

“Assuring Healthy Buildings using Smart Technologies”

- D&M Engineering (Chair)
- Delos Living LLC
- International Corporate Expansion (ICE) / XME.digital
- Johnson Controls, Inc.
- NYSERDA
- Parity, Inc.
- Sustainable Resources Management Inc.
- TIA Telecommunications Industry Association (TIA)
- Yorkland Controls Ltd.

7. **Other Business** - Bob Allan (The Siemon Company)

7.1 Other new IBC business

Bob Allan called for new business related to future IBC Guest/Keynote presentation topics and speakers, new IBC White Papers, new research projects and meeting ideas, etc.

David Katz (Sustainable Resources Management Inc.) announced that Building Intelligence Group has launched a chapter in the GTA (Greater Toronto Area), one of 20 in North America. He mentioned they will begin meeting in the very near future.

David also mentioned the launch of BIQ ([Building Intelligence Quotient](#)), an online intelligent building assessment and ranking tool, viewed by the industry as the de-facto standard to evaluate building intelligence. He mentioned the tool is up and ready for use.

8. **Announcements** - Robert Lane (Robert H. Lane and Associates Inc.)

8.1 Past Events Overview

[BICSI](#) - January 30 - February 3, 2022 | Orlando, FL USA

[AHR Expo](#) - January 31 - February 2, 2022 | Las Vegas, NV USA

8.2 Upcoming Events

[CXEnergy](#) - April 19-22, 2022 | Orlando, FL, USA

[Distributech International](#) - May 23-25, 2022 | Dallas, TX, USA

9. **Adjournment** (1:30 PM ET) - Bob Allan (The Siemon Company)

[Next IBC Meeting, Tuesday, May 10, 2022](#)

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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 24, 2022 that their name should not be added. Non-CABA members that attended this meeting as a guest, should contact Marta Klopotoska klopotoska@caba.org, to indicate if they wish to join the IBC or CABA. [CLICK HERE](#) for more information on the CABA Benefits and please circulate them to others in your organization.

Regards,

Greg Walker, CAE
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Continental Automated Buildings Association (CABA)
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Phone: 613.518.6742
Web site: <http://www.caba.org>

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