



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

Tuesday, February 12, 12 NOON – 1:30 PM (ET) via Webinar

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:

ARM, Inc., Aniruddha Deodhar
Automated Comfort Controls, Paul Gessler
Axis Lighting Inc., Mehdi Abbasi
BC Hydro, David Rogers
BSD Solutions Ltd., Darrell Driver
CABA, Andrew Glennie
CABA, Greg Walker
CABA, Ron Zimmer
CABA, Sashien Godakandae
CAIL, Lindsay Pick
Cimetrics, Inc., Anto Budiardjo
CMG Consulting LLC, Andres Carvallo
CopperTree Analytics Inc., Derek John
eMcRey, Marc Lacroix
Enercare Connections Inc., Ankush Randhawa
Enercare Connections Inc., Drazen Lucic
Enercare Connections Inc., Sarah Hung
ESC Automation, Graham McNeill
ESC Automation, Shantel Thompson
exp US Services, Inc., Chris Larry
FacilityConneX, LLC., Thomas Schiller
Frost & Sullivan, Maurice Okawaki
Green Power Labs Inc., Ron Omessi
Honeywell International Inc., Debra Becker
Honeywell International Inc., Greg Bernhardt
Honeywell International Inc., Harsha Chandrashekar
Ingersoll Rand, Chris Hsieh
James Brehm & Associates, Keith Tamboer
JLL, Jiri Skopek

Johnson Controls Inc., Alison Hong
Ken Wacks Associates, Kenneth Wacks
LonMark International, Ron Bernstein
MechoSystems, Inc., Dana Archer
Mircom Group of Companies (MGC), Jason Falbo
MS Consultants, LLC, David Fabian
MS Consultants, LLC, Kyle Young
National Research Council Canada (NRC), Trevor Nightingale
New Buildings Institute (NBI), Alexi Miller
Panduit Corp., James Swigert
Panduit Corp., Marc Goodman
Public Services and Procurement Canada, Marek Dziejdzic
Siemens Industry, Inc., David Thurow
Siemens Industry, Inc., Eric Russell
Siemens Industry, Inc., Jon Lyman
Siemens Industry, Inc., Mary Blanchard
Syska Hennessy Group, Inc., Thomas Grimard
tekmar Control Systems Ltd., Greg Leupin
Telecommunications Industry Association (TIA), Harry Smeenk
TELUS, Barinder Shergill
TELUS, Danny Sran
TELUS, Dasola Oluge
TELUS, Ian Cruickshank
The Cadillac Fairview Corporation Limited, Ernest Fung
The Siemon Company, Bob Allan
U.S. Green Building Council (USGBC), gpalanki@usgbc.org
Virginia Tech, Sneharaj Ramdaspathi
Yorkland Controls Ltd., Tom Chen

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)

IBC Chair, Trevor Nightingale (National Research Council) welcomed everyone and introduced: IBC Vice-Chair Bob Allan (The Siemon Company), IBC Vice-Chair Robert Lane (Robert H. Lane & Associates Inc.), IBC Vice-Chair Harsha Chandrashekar (Honeywell International Inc.), IBC White Paper Sub-Committee Chair Ken Wacks (Ken Wacks Associates), David Fabian (MS

Consultants, LLC) and Kyle Young (MS Consultants, LLC). 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 22, 2017 IBC meeting were circulated and were posted on the CABA website in the IBC section: www.caba.org/ibc.

Motion to approve the November 22, 2017 IBC minutes was moved by Bob Allan (The Siemon Company) and the motion was seconded by Maurice Okawaki (Frost & Sullivan). Unopposed motion passed.

4. “Tax Incentives for Green Buildings” - David Fabian (MS Consultants, LLC), Kyle Young (MS Consultants, LLC) (30 Minutes)



Greg Walker (CABA) introduced David Fabian (MS Consultants, LLC) and Kyle Young (MS Consultants, LLC). David and Kyle gave a 30 minute presentation on “Tax Incentives for Green Buildings”. Bob Allan (The Siemon Company) led a question and answer session at the end of the presentation. The recorded presentation and PPT can be viewed at www.caba.org/ibc.

5. Research Update - Harsha Chandrashekar (Honeywell International Inc.), Trevor Nightingale (National Research Council), Bob Allan (The Siemon Company)

5.1 “Intelligent Buildings: Design & Implementation” - Harsha Chandrashekar (Honeywell International Inc.)



CABA™
Intelligent Buildings:
Design & implementation

LANDMARK RESEARCH REPORT



Harsha Chandrashekar (Honeywell International Inc.) gave brief overview of the 2017 IBC Landmark Research Project, “Intelligent Buildings: Design & Implementation”. CABA and the IBC have just completed this research project and it will be available for purchase on June 6, 2018 for the CABA Member price of \$4,900 US. To purchase this research, please contact Greg Walker (CABA) at walker@caba.org. The executive summary of this research is now available to all CABA Members and can be found [HERE](#).

Twenty-Seven (27) CABA members are currently funding this research:



Only the funders will receive the full research report.

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


**Improving Organizational Productivity
with Building Automation Systems**
BOUTIQUE MULTI-CLIENT RESEARCH PROJECT



Trevor Nightingale (National Research Council) gave a brief overview of this \$150,000 US CABA Boutique Multi-Client Research Project. Due to the importance of this research, the research funders have generously and unanimously decided to release the full research for free to the entire industry. [CLICK HERE](#) to download the full research report and presentation.

CABA, the National Research Council (NRC) and the IBC are planning to pursue Phase 2 of this research shortly. 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. The CABA Board of Directors has created a Task Force to help create the prospectus and deliverables of Phase 2. 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](#).

Seven (7) CABA members funded Phase 1 of this project:



5.3 New “Monetization of Intelligent Buildings” Update - Bob Allan (The Siemon Company)

**CABA**
**Monetization of
Intelligent Buildings**
LANDMARK RESEARCH PROJECT



Bob Allan (The Siemon Company) gave brief overview of the upcoming \$150,000 US 2018 IBC Landmark Research Project, “Monetization of Intelligent Buildings”. CABA and the IBC are actively seeking funders for this research. To receive this research and become a funder, please contact Greg Walker (CABA) at walker@caba.org. The full research prospectus and other supporting material can be found at: www.caba.org/research

Two (2) CABA members are already funding this research:



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 can be found at: www.caba.org/White-Papers.

[IBC White Paper Sub-Committee:](#)

Ken Wacks Associates, Ken Wacks (Chair)
Frost & Sullivan, Dilip Sarangan
Independent Consultant, Brittany Hack
National Research Council, Heather Knudsen
Public Services and Procurement Canada, Marek Dziedzic
Siemens Industry, Inc., Raphael Imhof
Sustainable Resources Management, 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 Road to Smart Cities”

Working Group

ABB
AHAM (Association of Home Appliance Manufacturers)
Bristol City Council
Canadian Advanced Technology Alliance (CATA)
Canadian Automated Vehicles Centre of Excellence (CAVCOE)
Canadian Chamber of Commerce
Canadian Electricity Association
Canadian Open Data Exchange (ODX)
Canadian Urban Institute
Canadian Water Quality Association
City of Atlanta
City of Edmonton
City of Toronto
City of Vaughan
Consultant (Former Manitoba Hydro)
Consumer Technology Association (CTA)
CSA Group
Electro-Federation Canada
Ernst & Young LLP
Etron Energy Corp.
Frost & Sullivan
Information Technology Association of Canada
JLL
National Research Council of Canada
Navigant Research
Ontario Ministry of Research and Innovation
Retail Council of Canada
Robert H. Lane and Associates Inc.
Smart Cities Council
Smart Cities Management Consultant

Sustainable Resources Management Inc.
TM Forum
Unmanned Systems Canada

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

“Development and Training of a Knowledge-based Workforce for the Intelligent Buildings and Connected Home Industries”

Working Group

Algonquin College
Automation Federation
Bedrock Learning, Inc.
British Columbia Institute of Technology
CEES-Advisors
College of DuPage
Complete Learning Solutions
ESPA (The Electronic Systems Professional Alliance)
ETA International
George Brown College
Heartland Community College
Irvine Valley College
Lambton College
Laney College - BEST Center
LonMark International
QUEST
Rio Hondo Community College District
Robert H. Lane and Associates Inc.
Seneca College
Siemens Industry, Inc.
Sustainable Resources Management
Texas A&M University
Wharton County Junior College

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

“A New Deal for Buildings: Modelling Bandwidth Demand Generated by Intelligent Buildings”

Working Group

Cimetrics, Inc.
Fulham
Honeywell International Inc.
Johnson Controls Inc.
LonMark International
SkyFoundry, LLC
Sustainable Resources Management Inc.
Yorkland Controls Limited

Ken Wacks (Ken Wacks Associates) gave an overview of this paper.
“Elevator Systems for Future Intelligent Buildings - Part 1, 2, and 3”
Working Group
International Association of Elevator Engineers
The University of Northampton

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

6.2 In Progress:

“Modelling Bandwidth Demand Generated by Intelligent Buildings”
Working Group
BetaRover Inc.
Brookfield Global Integrated Solutions
MechoSystems, Inc.
Mircom
Nordicity Group Limited
Open Connectivity Foundation
Paremus
PLC Multipoint, Inc.
Sustainable Resources Management Inc.
Syska Hennessy Group, Inc.
Texas A&M University
The Siemon Company
Western University

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

“Impacts of Automated Shading in Building Projects”
Working Group
Somfy Systems, Inc.
Lawrence Berkeley National Laboratory
MechoSystems, Inc.
NYSERDA
PLC Multipoint, Inc.
Siemens Industry, Inc.
Sustainable Resources Management
TRC Energy Services
Vistar Energy Consulting
Window Products Management

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

7. Intelligent vs Conventional Building Cost Calculator Task Force - Bob Allan (The Siemon Company)

Bob Allan (The Siemon Company) explained the need for a cost calculator for intelligent buildings. He explained the various elements that could be examined in the cost calculator. He made a call to the IBC for task force volunteers to help develop the cost calculator. A few IBC members contacted CABA and Bob to join the task force. Bob Allan (The Siemon Company), David Rogers (BC Hydro), Harry Smeenk (Telecommunications Industry Association), Limor Schafman (Telecommunications Industry Association), and Sneharaj Ramdasalli (Virginia Tech) have already joined the Task Force. If you are interested in joining this Task Force, please contact Bob Allan (The Siemon Company) at Bob.Allan@siemon.com.

8. New Business – Greg Walker (CABA), Trevor Nightingale (National Research Council)

8.1 CABA decision on BIQ Tool

Greg Walker (CABA) provided the IBC a history of the original Building Intelligence Quotient (BIQ) Tool and CABA's role in helping to develop it. A couple of CABA members have asked CABA to develop an updated version of the BIQ Tool. CABA brought this concept to the CABA Board of Directors at the Consumer Electronics Show (CES) 2018. The original BIQ Tool is owned by JLL a decision was made not to promote or develop the BIQ Tool without the expressed written consent of JLL.

8.2 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.

Georgia Southern University asked the IBC to help distribute their survey, "Impact of Building Information Modeling (BIM)". [CLICK HERE](#) to take their survey and have your opinions heard.

9. Announcements – Ron Zimmer (CABA)

9.1 Past Events Overview:

- [AHR EXPO, Jan 22-24, 2018, Chicago, IL](#)
- [DistribuTECH Jan 23-25, 2018, San Antonio, TX](#)

9.2 Upcoming Events:

- [Strategies in Light / The LED Show, Feb 13-15, Long Beach, CA](#)
- [Light + Building, March 18-23, 2018, Frankfurt, Germany](#)
- [LIGHTFAIR International, May 6-7, Chicago, IL](#)
- [Innovative Cities Summit 2018, May 9-10, Riyadh, Kingdom of Saudi Arabia](#)
- [TM FORUM LIVE!, May 14-16, Nice, France](#)
- [IBcon 2018 – Realcomm, June 6-7, Las Vegas, NV](#)

9.3 Next IBC Meeting

Trevor Nightingale (National Research Council) noted that the next IBC meeting will be held late April or early May, 2018 via Webinar.

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

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CABA IBC meetings are open to CABA Members and invited guests, and everyone is encouraged to participate. More info on the IBC, past minutes, participants and terms of reference can be found at: <http://www.caba.org/IBC>. Any CABA Member that attended as a guest will be added to the IBC, unless they notify the CABA office by March 2, 2018 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 CABA to remain on the IBC.

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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