



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

Wednesday, Nov 22, 2017, 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, Robert Lane (Robert H. Lane & Associates Inc.)

Present:

AB Controls, Inc., Ben Disney
American Family Insurance, Greg Geib
Asociar LLC, Ronald Lucas
Axis Lighting Inc., Jamal Carrington
BC Hydro, David Rogers
BC Hydro, Carmelina Sorace
Belimo Americas, Darryl DeAngelis
BSRIA Limited, Lone Hansen
CABA, Greg Walker
CABA, Rawlson King
CEE, Catie Dimas
Cisco Systems, Inc., Jeff Myrdek
CMG Consulting LLC, Andres Carvallo
Control Technologies, Inc., Kate Merges
Control Technologies, Inc., Carolyn Marquis
Delta Controls, A Delta Group Company, Kurt Graves
Eagle Technology, Inc., Harshad Shah
Energy ISA LLC, George Belich
FacilityConneX, LLC., Tom Schiller
GGI Solutions, Olivier Ferrand
GGI Solutions, Sylvie Lafreniere
GGI Solutions, Julie Ferrigno
Henkel, Judy Ermitano
Henkel, Camilla Welch
Honeywell International Inc., Harsha Chandrashekar
Horizon Technologies Inc., Ludo Bertsch
IHS Markit, Bryan Montany
International Data Corporation (IDC), Nina Turner
JLL, Jiri Skopek

Ken Wacks Associates, Ken Wacks
National Research Council, Trevor Nightingale
Navigant Research, Courtney Marshall
NEOnet, Paul Ouimette
OFS, Anurag Jain
OIES Consulting, Francisco Maroto
OSRAM Inc., Chuck Piccirillo
OSRAM Inc., Edie Kramer
PLC Multipoint, Inc., Joseph Briscoe
Public Services and Procurement Canada, Marek Dziejdzic
Renesas Electronics America Inc., John Dinh
SEPSE Consultants Inc., Marc Lacroix
Siemens Industry, Inc., Richard Rivera
Siemens Industry, Inc., David Thurow
Sustainable Resources Management Inc., David Katz
Switch Automation Inc., Meghan Saylor
TELUS, Danny Sran
The Siemon Company, Bob Allan
UL LLC, Mick Conley
United Technologies Corporation, Mead Rusert
Watts Water Technologies, Jay Vath
Zinwave, Allen Dixon

1. **Agenda** – Rawlson King (CABA)

Rawlson King (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. Rawlson noted that Ron Zimmer (CABA) and Greg Walker (CABA) send their regrets as they were unable to attend this meeting.

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

IBC Chairman, 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 White Paper Sub-Committee Chair Ken Wacks (Ken Wacks Associates) and Allen Dixon (Zinwave). 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 July 27, 2017 IBC meeting were circulated and were posted on the CABA website in the IBC section: <http://www.caba.org/IBC>.

Motion to approve the July 27, 2017 IBC minutes was moved by David Katz (Sustainable Resources Management Inc.) and the motion was seconded by Bob Allan (The Siemon Company). Unopposed motion passed.

4. **“IoT in the Enterprise”** Presentation from Zinwave (30 min) – Allen Dixon (Zinwave)



Rawlson King (CABA) introduced Allen Dixon (Zinwave). Allen gave a 30 minute presentation on “IoT in the Enterprise”. 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** - Trevor Nightingale (National Research Council), Bob Allan (The Siemon Company)

5.1 **“Intelligent Buildings: Design & Implementation”** - Trevor Nightingale (National Research Council)



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Intelligent Buildings: Design & implementation

LANDMARK RESEARCH REPORT



Trevor Nightingale (National Research Council) gave brief overview of the 2017 IBC Landmark Research Project, “Intelligent Buildings: Design & Implementation”. 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 webinar recording for the project 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. 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 Topics for 2018 IBC Landmark Research - Bob Allan (The Siemon Company)

David Katz (Sustainable Resources Management Inc.) suggested block chain technology as it relates to measurement and evaluation of energy in buildings.

Mick Conley (UL LLC) suggested interoperability as a future research topic.

Harsha Chandrashekar (Honeywell International Inc.) suggested the standardization of information exchange, as an extension of interoperability.

Ken Wacks (Ken Wacks Associates) expressed some concerns with this suggestion as CABA does not get involved in standards as it is an agnostic trade association.

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

All completed CABA white papers can be found at: <http://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

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.

“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.

“Probable Elevator Systems in Future Intelligent Buildings”

Working Group

International Association of Elevator Engineers
The University of Northampton

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

6.3 Looking for Authors:

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

Working Group

ABB Inc.
Enercare Connections Inc.
Sustainable Resources Management

“Impacts of Automated Shading in Building Projects”

Working Group

Somfy Systems, Inc.

7. New Business – Trevor Nightingale (National Research Council)

7.1 Call for other new IBC business

Trevor Nightingale (National Research Council) mentioned the annual CABA Forum and its format. The CABA Board of Directors recently formed a CABA Outreach Task Force to assist CABA in reaching out to the industry, this board consists of Jerine Ahmed (Southern California Edison Company), Matt Mahar (Vivint Smart Home), Scott McBrayne (The Cadillac Fairview Corporation Limited), Keith Tamboer (James Brehm & Associates) and Ron Zimmer (CABA). The CABA Outreach Task Force and the CABA Board of Directors have agreed to suspend the CABA Forum for a period of one (1) year starting in 2018. In place of the forum, six (6) events will be selected for CABA to attend and speak on CABA research in order to reach more industry professionals.

Trevor Nightingale (National Research Council) welcomed the three (3) new CABA Board Members: Rheem Manufacturing Company, Cyber Power Systems, Inc. and NXP Semiconductors.

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.

Andrew Glennie (CABA) proposed a research project on behalf of Larry Chang (Laney College). This project was on the economic impact of the intelligent buildings industry, particularly how many controls technicians are in the workforce. Trevor Nightingale (National Research Council) suggested it would be a great topic for a CABA white paper.

8. Announcements – Rawlson King (CABA)

8.1 Past Event Overview:

- [Shanghai Intelligent Building Technology, Sept 5-7, Shanghai, China](#)
- [University of Illinois Symposium, Nov 6, Champaign, IL](#)
- [Innovation InFocus 2017, Nov 7 – 8, Dallas, TX](#)
- [Greenbuild International Conference & Expo, Nov 8-10, Boston, MA](#)

8.2 Upcoming Event:

- [AHR EXPO HVACR Trade Show, Jan 22 – 24, Chicago, IL](#)
- [DistribuTECH Jan, 23 – 25, San Antonio, TX](#)
- [Lightspace California, Feb 13-15, Long Beach, CA](#)
- [LIGHTFAIR International, May 6-10, Chicago, IL](#)

8.3 Next IBC Meeting

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

9. 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 December 15, 2017 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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