



CABA Intelligent Buildings Council (IBC) Meeting Minutes

Friday, October 28, 2016, 12 NOON – 1:30 PM (ET) via Webinar

IBC Chair, Debra Becker (Honeywell International, Inc.)
IBC Vice-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:

Adappt Intelligence, Molly Bales
BC Hydro, Tim Mosley
CABA, Andrew Glennie
CABA, Greg Walker
CABA, Ron Zimmer
CABA, Sashien Godakandae
DynaQuip Controls Corporation, Dena Aholt
Eagle Technology, Inc., Harshad Shah
Electric Imp, Kevin Bush
ELECTRO-FEDERATION Canada, Bill Bryans
EMerge Alliance, Brian Patterson
Environmental Systems Design, Inc., Rob Knight
exp US Services, Inc., Chris Larry
Feblowitz Energy Consulting, Jill Feblowitz
Frost & Sullivan, Maurice Okawaki
George Brown College, Leo Salemi
Honeywell International, Inc., Debra Becker
Horizon Technologies Inc., Ludo Bertsch
International Facility Management Association (IFMA), Laverne Deckert
JLL, Darlene Pope
JLL, Jiri Skopek
Ken Wacks Associates, Ken Wacks
LonMark International, Ron Bernstein
LumenCache, Inc., Lynn Cowburn
National Research Council, Trevor Nightingale
PlumChoice, Inc., Channing Lai
Prologis, Greg Everson
RF Connect, Jeff Clark

Siemens Industry, Inc., Raphael Imhof
Siemens Industry, Inc., Udo Drafz
Sustainable Resources Management Inc., David Katz
Texas A&M University, David Claridge
United Technologies Corporation (UTC), Mike DeNamur
United Technologies Corporation (UTC), Xiaofan Mai

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** - Debra Becker (Honeywell International, Inc.)

IBC Chairman, Debra Becker (Honeywell International, Inc.) welcomed everyone and introduced: IBC Vice-Chair Trevor Nightingale (National Research Council), 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), Darlene Pope (JLL) and Chris Larry (exp US Services, Inc.). Debra also outlined the role of the IBC.

3. **Administrative** - Debra Becker (Honeywell International, Inc.)

3.1 Motion to approve Past IBC Minutes

Debra Becker (Honeywell International, Inc.) informed everyone that the meeting minutes from the July, 2016 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, 2016 IBC minutes was moved by Chris Larry (exp US Services, Inc.) and the motion was seconded by Derek Cowburn (Lumen Cache, Inc.). Unopposed motion passed.

4. **Research Update** - Trevor Nightingale (National Research Council), Greg Walker (CABA), Debra Becker (Honeywell)

4.1 “Improving Organizational Productivity with Building Automation Systems” Update - Trevor Nightingale (National Research Council)

Trevor Nightingale (National Research Council) gave a brief overview of this research project that launched in May. CABA, the National Research Council (NRC) and the IBC are actively seeking additional funders for this project and a request for funders was made. To receive this research and become a funder please contact Greg Walker, CABA Research Director at walker@caba.org.

The full prospectus and additional information can be found at:

<http://www.caba.org/CABA/Research/NRC-Research-Project.aspx>.

Eight (8) CABA members are currently funding this project:



Ron Zimmer (CABA) and Darlene Pope (JLL) discussed the 3-30-300 concept, which is a trade mark of JLL. This principle states that a typical organization spends \$3 per square foot on annual utilities, \$30 on rent and \$300 on payroll.

More information on the 3-30-300 rule please see the following link:

<http://www.energymanagertoday.com/true-false-saving-energy-workplace-automatically-drives-productivity-0105930/>.

4.2 “Intelligent Buildings and the Impact of the Internet of Things” Update - Greg Walker (CABA),

Greg Walker (CABA) gave a brief overview of this \$150,000 US CABA 2016 Landmark Research Project. CABA and the IBC are actively seeking funders for this research. To receive this research and become a funder, please contact the CABA Research Director, Greg Walker at walker@caba.org. The full prospectus and a recorded webinar explaining the project can be found at: <http://www.caba.org/CABA/Research/IB-IOT.aspx>.

Twenty-three (23) CABA members are currently funding this research:



Only the funders will receive the full research.

4.3 Next IBC Landmark Research Project - Debra Becker (Honeywell)

Debra Becker (Honeywell) presented the IBC Landmark Research Topic for 2017. Two (2) potential topics for the next IBC Landmark research project were selected using input from past IBC meetings, the CABA membership and the IBC executive. After a formal IBC and CABA membership vote “Intelligent Building Design & Implementation” was selected as the 2017 IBC Landmark Research project. If you would like to know more about receiving this research and becoming a funder please contact Greg Walker (CABA) at walker@caba.org.

“Intelligent Building Design & Implementation”

This research would address the theory and application of technical design in Intelligent High-Performance Buildings from the perspective of architects, building engineers, designers, OEM hardware/software providers, service providers and facility managers. Topics that may be covered include: automated lighting and shading, system integration, HVAC configurations, real-time controls, comfort and productivity, security and access control.

Debra outlined the research timeline: RFP expected mid-November, RFP Selection of research firm by the end of 2016 and start of the research in Q1, 2017.

5. **“Intelligent Buildings and the Bid Specification Process”**
Presentation from JLL and exp US Services (30 min) - Darlene Pope (JLL), Christopher Larry (exp US Services), Greg Walker (CABA)



Darlene Pope, JLL

Senior Vice President Energy & Sustainability Services



Christopher Larry, exp US Services

Director of Energy Engineering

Greg Walker (CABA) introduced Darlene Pope (JLL) and Chris Larry (exp US Services). Darlene and Chris gave a 30 minute presentation on Intelligent Buildings and the Bid Specification Process.

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 10-30 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>.

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 “EMerge Alliance Hybrid AC/DC – Part 2”

Working Group

EMerge Alliance - Brian Patterson (Author)

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

6.2 “Smart Cities”

Working Group

Electro-Federation Canada - Bill Bryans (Author)
Canadian Automated Vehicles Centre of Excellence - Barrie Kirk (Author)
ABB - Carolina Gallo
AHAM (Association of Home Appliance Manufacturers) - Bruce Rebel
Bristol City Council - Caroline Twigg
Bristol City Council - Stephen Hilton
Canadian Advanced Technology Alliance (CATA) - Katherine Thompson
Canadian Chamber of Commerce - Warren Everson
Canadian Electricity Association - Francis Bradley
Canadian Open Data Exchange (ODX) - Kevin Tuer
Canadian Urban Institute - Peter Halsall
Canadian Water Quality Association - Kevin Wong
City of Atlanta - Keith Robinson
City of Atlanta - Megan O'Neil
City of Edmonton - Roxanne Kits
City of Toronto - Grant Coffey
City of Toronto - Jesse Coleman
City of Toronto - Prashant Bhalja
City of Toronto - Susan Viegas
City of Toronto - Ulrica Ho
City of Vaughan - Frank Di Palma
Consultant (Former Manitoba Hydro) - Ed Tymofichuk
Consumer Technology Association (CTA) - Bill Belt
CSA Group - Stephen Brown
Etron Energy Corp. - Daniel Roman
Information Technology Association of Canada - David Messer
JLL - Jiri Skopek
National Research Council of Canada - Robert Arnold
National Research Council of Canada - Simon Backer
Navigant Research - Noah Goldstein
Ontario Ministry of Research and Innovation - Brad DeFoe

Retail Council of Canada - Gary Rygus
Robert H. Lane and Associates Inc. - Robert Lane
Smart Cities Council - Jesse Berst
Smart Cities Management Consultant - Mark McDonald
Sustainable Resources Management Inc. - David Katz
Unmanned Systems Canada - Sonia Higgins
Wavefront - Alan Swain

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

6.3 "Intelligent Building Advances in the Quick Service Restaurant Industry"

Working Group

Schneider Electric - Gina Elliott (Author)
Arrow Electronics – (Steve Weeres)
AT&T - Matt Beattie
Carpigiani Group - Giovanni Virgilli
Carpigiani Group - Roberto Lazzarini
Small Box Energy - Tracy Markie
Small Box Energy - Matt Berbner

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

6.4 "The Intelligent Thermostat for Multifamily Apartment Buildings"

Working Group

WorkTechWork.com - Josh Bradshaw (Author)
Forest City Reality Trust - Francis Gallo
Forest City Reality Trust - Gina Anselmo

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

6.5 "Academic Training for the Connected Home and Intelligent Buildings Industries"

Working Group

Texas A&M University - Morad Atif (Author)
Algonquin College - Blerim Qela
Automation Federation - Dean Ford
Bedrock Learning, Inc. - Helen Heneveld
British Columbia Institute of Technology - Andrea Linsky
CEES-Advisors - Carlos Santamaria
College of DuPage - Bob Clark
ESPA (The Electronic Systems Professional Alliance) - Jeff Gardner
ETA International - Teresa Maher
ETA International - Bryan Allen
George Brown College - Leo Salemi
Heartland Community College - Chris Miller

Irvine Valley College - Len Pettis
Lambton College - Mehdi Sheikhzadeh
Laney College - BEST Center - Larry Chang
LonMark International - Ron Bernstein
QUEST - Richard Laszlo
Rio Hondo Community College District - Bruce Noble
Robert H. Lane and Associates Inc. - Robert Lane
Seneca College - William Humber
Siemens Industry, Inc. - Steve Hoiberg
Sustainable Resources Management - David Katz
Wharton County Junior College - JB Groves III

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

6.6 “Elevator Technologies in High Rise Intelligent Buildings”

Working Group

Asian Institute of Intelligent Buildings - Albert So (Author)
Architectural Elevator Consulting - Bob Nicholson (Author)

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

6.7 Call for new IBC White Paper topics and volunteers

All previously completed IBC White Papers can be downloaded at:
www.caba.org/IBC

7. New Business - Debra Becker (Honeywell International, Inc.)

7.1 Call for other new IBC business

Debra Becker (Honeywell International, Inc.) made a call for new business such as: future IBC Keynote presentation topics, new IBC white papers, new research projects and meeting ideas, etc.

David Katz (Sustainable Resources Management Inc.) proposed that CABA lead the BIQ 2.0 with JLL, IBI, and FRM. Ron Zimmer (CABA) proposed a separate call concerning this initiative.

Ron Zimmer (CABA) mentioned that the next IBC Keynote should focus on contractors. Lynn Cowburn (LumenCache, Inc.) also mentioned that this would be a great topic as their products are designed to work with contractors.

8. Announcements - Debra Becker (Honeywell), Ron Zimmer (CABA)

8.1 Past Event Overview: [“Intelligent Building & Connected Home Pavilion” at Greenbuild International Conference and Expo, Presented by CABA, Oct 5 - 6, 2016, Los Angeles, CA.](#)

Ron Zimmer (CABA) mentioned the new “Intelligent Building & Connected Home” Pavilion was presented by CABA. Ron mentioned that there was a CABA town hall at this event. CABA will be helping to organize and present an “Intelligent Buildings and Connected Home” Pavilion next year at Greenbuild, which will take place November, 8-9, 2017 in Boston, MA.

8.2 Upcoming Event: [AHR EXPO HVACR Trade Show, Jan 30 – Feb 1, 2017, Las Vegas, NV](#)

Ron Zimmer (CABA) gave an overview of this event. Greg mentioned that there will be a full day of CABA presentations at the event, which will include the topics of: Intelligent Buildings and Cybersecurity, Industry Town Hall and Intelligent buildings and the Internet of Things

8.3 Upcoming Event: [CABA Intelligent Buildings & Digital Home Forum, April 26 - 28, 2017, Santa Clara, CA.](#)

Ron Zimmer (CABA) mentioned that the next CABA “Intelligent Buildings & Digital Home Forum” will be hosted at the Intel head office in Santa Clara, CA. The call for speakers is still open. There will be an IBC Town Hall and start-up pitch fest at the Forum.

8.5 Next IBC Meeting

Debra Becker (Honeywell) noted that the next IBC meeting will be held late January 2017 via webinar.

9. Adjournment (1:30 PM ET) - Debra Becker (Honeywell),

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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 notifying the CABA office by Nov 18, 2016.

Regards,

Greg Walker
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