



CABA Intelligent Buildings Council (IBC) Meeting Minutes

Tuesday, February 14, 2017, 12 NOON – 1:30 PM (ET) via Webinar

IBC Chair, Debra Becker (Honeywell International, Inc.)
IBC Vice-Chair, Bob Allan (The Siemon Company)
IBC Vice-Chair, Robert Lane (Robert H. Lane & Associates Inc.)
IBC Vice-Chair, Trevor Nightingale (National Research Council)

Present:

BAS Services & Graphics, LLC, Alper Uzmezler
BAS Services & Graphics, LLC, Andrey Zakharov
BAS Services & Graphics, LLC, Devon Knight
BAS Services & Graphics, LLC, Dmitriy Vasilyev
BAS Services & Graphics, LLC, Fred Horn
BC Hydro, David Rogers
BC Hydro, Tim Mosley
Belimo Americas, Dennis Johannesen
Bodvoc Ltd., Hugh Boyes
Brookfield Global Integrated Solutions, Nuno Duarte
CABA, Andrew Glennie
CABA, Rawlson King
CABA, Ron Zimmer
CBRE, Inc., Kell Bogdan
CPUS | Circum-Pacific U.S. Inc, Philip Kim
CSA Group, Stephen Brown
Eagle Technology, Inc., Harshad Shah
Electric Imp, Alex Edwards
EMCOR Services Automated Controls, Greg Pownell
ESC Automation, Brad Wyers
ESC Automation, Shantel Thompson
exp US Services, Inc., Chris Larry
Frost & Sullivan, Maurice Okawaki
Gfree, Joe Smith
Hepta Control Systems, Jason Houck
Hepta Control Systems, Mike Reed
Hepta Control Systems, Rob Malvaney
Honeywell International, Inc., Debra Becker

Honeywell International, Inc., Sathish Nanjappa
IEC Systems, Richard Jackson
Intel Corporation, Michael Clay
Intellimation LLC, Terry Herr
Intermatic Inc., Barb Farrah
JLL, Jiri Skopek
Johnson Controls Inc., Daryl Seay
Ken Wacks Associates, Ken Wacks
MechoSystems, Inc., William Maiman
METZ CONNECT USA, Inc., Hugh Daly
MGM Resorts International, Mark Campbell
Navigant Research, Krystal Maxwell
OPTiGO Networks Inc., Ryan Hughson
Panduit Corp, Marc Goodman
PLC Multipoint, Inc., Joseph Briscoe
Public Services and Procurement Canada, Marek Dziedzic
RBCG, LLC, Ron Bernstein
Robert Bosch LLC, Holger Behrens
Robert Bosch LLC, Susanne Klement
Schneider Electric, Scott Henneberry
Siemens Industry, Inc., David Thurow
Siemens Industry, Inc., Maria Marks
Siemens Industry, Inc., Richard Nortier
Southwire Company, LLC, Dave Watson
The Siemon Company, Bob Allan
The Swan Group, Keith Swan
TM Forum, Craig Bachmann
Trane, Leon Hawkins
United Technologies Corporation (UTC), Bhavesh Patel
United Technologies Corporation (UTC), Ke Xu
Virginia Tech, Murat Kuzlu
Virginia Tech, Sneharaj Ramdasalli
W.B. Cross Co. Limited, David Cross
www.buildingcontext.me, Therese Sullivan

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), Alper Üzmezler (BAS Services & Graphics, LLC) and Jason Houck (Hepta Control Systems). 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 October, 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 October, 2016 IBC minutes was moved by Barb Farrah (Intermatic Inc.) and the motion was seconded by Jiri Skopek (JLL). Unopposed motion passed.

4. **“The role of Integrators in Intelligent Buildings”** Presentation from BAS Services & Graphics, LLC. and Hepta Control Systems (30 min) – Greg Walker (CABA), Alper Üzmezler (BAS Services & Graphics, LLC.), Jason Houck (Hepta Control Systems)



Alper Üzmezler,
BAS Services & Graphics, LLC.
Managing Partner



Jason Houck
Hepta Control Systems
Chief Information Officer

Greg Walker (CABA) introduced Alper Üzmezler (BAS Services & Graphics, LLC.) and Jason Houck (Hepta Control Systems). Alper and Jason gave a 30 minute presentation on “The role of Integrators in Intelligent Buildings”.

5. **Research Update** - Greg Walker (CABA), Debra Becker (Honeywell)

5.1 “Improving Organizational Productivity with Building Automation Systems” Update - Greg Walker (CABA)

Greg Walker (CABA) gave a brief overview of this \$150,000 US research project. CABA, the National Research Council (NRC) and the IBC are actively seeking additional participating 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:



5.2 “Intelligent Buildings and the Impact of the Internet of Things” Update - Debra Becker (Honeywell)

Debra Becker (Honeywell) gave a brief overview of this \$150,000 US CABA 2016 Landmark Research Project. This research was recently completed. If your organization was a funder and you have not received the full research please contact Greg Walker, CABA Research Director at walker@caba.org. The Executive Summary of this research is available to all CABA members via

the CABA Members Library which can be accessed at:
<https://www.caba.org/member-research-library>

Twenty-six (26) CABA members are currently funding this research:

CABA™
Intelligent Buildings and the Impact of the Internet of Things
LANDMARK RESEARCH REPORT

CABA AND THE FOLLOWING CABA MEMBERS FUNDED THIS RESEARCH:

GOLD
KMC CONTROLS

SILVER
AcuityBrands, Cadillac Fairview, ComEd, current (powered by GE), DISTECH CONTROLS, electric imp, enlightened, Honeywell, infoComm INTERNATIONAL, intel, JLL, Johnson Controls, OSRAM SYLVANIA

BRONZE
Manulife Real Estate, PHILIPS, Canada, BOSCH, Schneider Electric, SIEMENS, lucid, PANDUIT

Only the funders will receive the full research.

5.3 New IBC “Intelligent Buildings: Design and Implementation” Landmark Research - Greg Walker (CABA)

Greg Walker (CABA) announced the new IBC research project for 2017, “Intelligent Buildings: Design and Implementation”. CABA and the IBC are actively seeking funders and participants of this research, 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 Buildings: Design and 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. For more

information please see: <http://caba.org/documents/forms/Prospectus-IB-Design-Implementation.pdf>.

Three (3) CABA members are currently funding this research:



Only the funders will receive the full 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: <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

Frost & Sullivan - Dilip Sarangan

Independent Consultant - Brittany Hack

Public Works & Government Services Canada (PWGSC) - 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 “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 – Ron Zimmer (CABA)

7.1 CABA 25 Industry Benefits and CABA Video

Ron Zimmer (CABA) commented on the new three (3) minute CABA membership benefits video. Ron introduced Ken Wacks (Ken Wacks Associates) to talk about the CABA Information Council (CIC). Ken gave a great overview of the CIC and the CABA Members Library which has over four (4) million dollars of research, for more information please go to:

<https://www.caba.org/member-research-library>

7.2 Call for other new IBC business

Ron Zimmer (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.

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

8.1 Past Event Overview:

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

Ron Zimmer (CABA) gave an overview of the three (3) educational sessions CABA hosted at the event, “Intelligent Buildings and Cybersecurity”, “IBC Town Hall” and “Intelligent Buildings and IoT”. This event had over 68,000 attendees and remains one of the key events of the intelligent buildings sector.

Ron Bernstein (RBCG, LLC) mentioned that the educational sessions have been expanded in recent years and they had a great turnout at their sessions. AHR is incorporating more technology each year and he recommends the event.

DistribuTECH Jan 31- Feb 2, 2017, San Diego, CA

Ron Zimmer (CABA) outlined the event and recommended the event for all in the intelligent buildings industry.

8.2 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 fests at the Forum. There will also be keynotes from Google, Intel, Vivint Smart Home and others. Both CABA members and non-members are welcome to attend.

8.3 Next IBC Meeting

Debra Becker (Honeywell) noted that the next IBC meeting will be held April 27, 2017 in a town hall format at the CABA Intelligent Buildings & Digital Home Forum, Santa Clara, CA.

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 Feb 28, 2017.

Regards,

Greg Walker
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Continental Automated Buildings Association (CABA)
Email: walker@caba.org
Phone: 613.686.1814 x227
Website: <http://www.caba.org>