



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

Wednesday, May 30, 12 NOON – 1:30 PM (ET) via Webinar

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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:

151 Advisors, Steve Brumer  
American Family Insurance, Daniel Clancy  
ArcoLogix LLC, Anne Breene  
ARUP, Stephane Audrin  
B&D Proyectos, Dayyanet Diaz  
CABA, Andrew Glennie  
CABA, Greg Walker  
CABA, Ron Zimmer  
CMG Consulting LLC, Andres Carvallo  
ControlBEAM Digital Automation, Doug Migliori  
Cortet by CEL, David Parrett  
Cortet by CEL, Erik Davidson  
CSA Group, Stephen Brown  
Cyber Power Systems, Inc., Dan Niewirowicz  
Eagle Technology, Inc., Harshad Shah  
Electronic Systems Professional Alliance (ESPA), Jeff Gardner  
ESC Automation, Shantel Thompson  
exp US Services, Inc., Chris Larry  
ExteNet Systems, Inc., Ron Scott  
GGI Solutions, Sylvie Lafreniere  
HGA Architects and Engineers, Brad Kult  
Honeywell International Inc., Debra Becker  
Honeywell International Inc., Harsha Chandrashekar  
Horizon Technologies Inc., Ludo Bertsch  
IDEAWORKS, Mohawk College, Rubaid Khan  
IEEE Standards Association, Fawzi Behmann  
Ingersoll Rand, Carlos Soberon  
Innovative Lighting, Wendell Strong

Intel Corporation, Janine Davison  
Intel Corporation, Michael Clay  
Johnson Controls Inc., Alison Hong  
Kele, Inc., Richard Campbell  
Ken Wacks Associates, Kenneth Wacks  
Kerrwil, Owen Hurst  
Leading Cities, Michael Lake  
Panduit Corp., Marc Goodman  
Public Services and Procurement Canada, Marek Dziedzic  
Siemens Industry, Inc., David Thurow  
Siemens Industry, Inc., Roberto Torres  
Solbright Group, Inc., Michael Davies  
Stantec Consulting Ltd., Gary Rodgers  
Sustainable Resources Management, David Katz  
tekmar Control Systems Ltd., Greg Leupin  
Telecommunications Industry Association (TIA), Harry Smeenk  
Telecommunications Industry Association (TIA), Limor Schafman  
TELUS, Danny Sran  
TELUS, Jordan Melzer  
The Siemon Company, Bob Allan

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)

IBC Chair, Trevor Nightingale (National Research Council) sent his regrets for not being able to attend and chair the IBC meeting. Bob Allan (The Siemon Company) volunteered to be the acting chair for this meeting. Bob welcomed everyone and introduced: 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), Brad Kult (HGA Architects and Engineers). Bob also outlined the role of the IBC.

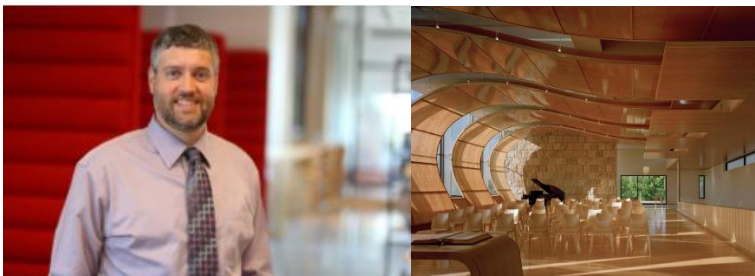
3. **Administrative** - Bob Allan (The Siemon Company)

3.1 **Motion to approve Past IBC Minutes**

Bob Allan (The Siemon Company) informed everyone that the meeting minutes from the February 14, 2018 IBC meeting were circulated and were posted on the CABA website in the IBC section: [www.caba.org/ibc](http://www.caba.org/ibc).

Motion to approve the February 14, 2018 IBC minutes was moved by Chris Larry (exp US Services, Inc.) and the motion was seconded by Marek Dziedzic (Public Services and Procurement Canada). Unopposed motion passed.

4. **“Intelligent Buildings for Occupants, Owners, and Operators: A Consultant’s Perspective”** - Brad Kult (HGA Architects and Engineers)  
(30 Minutes)



Bob Allan (The Siemon Company) introduced Brad Kult (HGA Architects and Engineers). Brad gave a 30 minute presentation on “Intelligent Buildings for Occupants, Owners, and Operators: A Consultant’s Perspective”. This presentation examined the state of the industry and emerging technologies that will support all of the various stakeholders in the built environment. It covered successes and challenges, and discussed how the Twin Cities Intelligent Buildings Working Group has begun meeting to bring together various trades and end users to discuss how to more effectively design, implement, and manage highly integrated Intelligent Buildings. CABA is going to discuss this at the next CABA Board of Directors meeting. Bob 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](http://www.caba.org/ibc).

5. **Research Update** - Harsha Chandrashekar (Honeywell International Inc.), Greg Walker (CABA), Bob Allan (The Siemon Company)

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



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## 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 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](mailto: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 funded this research:



Only the funders will receive the full research report and raw data.

### 5.2 “Phase 2: Improving Organizational Productivity with Building Automation Systems” - Greg Walker (CABA)

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



Greg Walker (CABA) 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](mailto: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:



**Phase 2 Task Force:**

Bianca Van Der Zande (Philips)  
Brandon Buckingham (Steelcase Inc.)  
Craig Walker (United Technologies Research Center)  
David Sapoznikow (Intel Corporation)  
Greg Walker (CABA)  
Jennifer Veitch (National Research Council)  
Rachna Stegall (UL LLC)  
Rimes Mortimer (Microsoft Corporation)

Ron Zimmer (CABA)  
Stephen Becker (Kimberly-Clark Professional)  
Trevor Nightingale (National Research Council)  
Tucker Boren (Acuity Brands, Inc.)

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



Greg Walker (CABA) 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](mailto:walker@caba.org). The full research prospectus and other supporting material can be found at: [www.caba.org/research](http://www.caba.org/research)

Twenty-four (24) CABA members are already funding this research:



Only the funders will receive the full research report and raw data.

### 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](http://www.caba.org/ibc). All completed CABA white papers can be found at: [www.caba.org/White-Papers](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](mailto:walker@caba.org).

**6.1 Recently Completed:**

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

**Working Group**

Cimetrics, Inc.  
Fulham Co., Inc.  
Honeywell International 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:

### “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. **New Business** – Michael Lake (Leading Cities), Jeff Gardner (ESPA), Andrew Glennie (CABA), Bob Allan (The Siemon Company)

#### 7.1 **Smart Building Global Competition** - Michael Lake (Leading Cities)

Michael Lake (Leading Cities) gave an overview of Leading Cities and how CABA members can get involved in the “Smart Challenge”. Leading Cities is a global non-profit and a leader in the smart cities space. In June, they will launch their AcceliCity program, a global competition for smart city startups that includes a web-based curriculum, mentorship, a boot camp in Boston with a pitch day in front of investors and demo day with potential clients. Ultimately, the winners will showcase their solutions in the Leading Cities Pavilion at the Smart City Expo and World Congress in Barcelona—the world’s largest smart city event.

In this inaugural year, Leading Cities is offering CABA Members free access to host a “Smart Challenge”. Hosts are able to choose a challenge focus, define the issue and set parameters for solutions, select the winner with inputs from global experts and provide a meaningful prize. Prizes can range from paid pilots, incubation, inclusion in an RFP to full deployment or anything in between.

To contact Michael Lake about this opportunity please email [M.Lake@LeadingCities.Org](mailto:M.Lake@LeadingCities.Org)

#### 7.2 **Electronic Systems Professional Alliance** - Jeff Gardner (ESPA)



Jeff Gardner (ESPA) gave an overview of ESPA and how CABA members can get involved.

Electronic Systems Professional Alliance: provides training and certification for entry-level technicians. Adopted mainly in high school career centers and tech schools.

Founders include: CEDIA, NSCA, and CTA. Industry partners included ESA, CABA, CompTIA and Bedrock Learning participated in CABA education white paper

How You Can Help:

- Identify schools in your area who might be a good fit. ESPA can easily be added to existing electronics or IT tracks. Or we can help a school build a complete electronic systems integration program from scratch.
- Become an ESPA sponsoring partner with financial support to subsidize exam fees for qualifying students.
- Raise awareness in the industry by sharing info via your presentations, newsletters, etc.

For more info: [www.espa.org](http://www.espa.org), [certification@espa.org](mailto:certification@espa.org)

### **7.3 New CABA Member Benefit: Dealers, Distributors and Integrators access to CABA Member Research Library - Andrew Glennie (CABA)**

Andrew Glennie (CABA) gave an update of this new CABA Member Benefit. CABA members, who have dealers, distributors and integrators, will be able to provide complimentary pass codes to them. This will allow many more dealers, distributors and integrators to access the complete CABA Member Research Library absolutely free. More industry people will be able to become educated on the latest research and information on integrated systems for connected homes and intelligent buildings. The complete listing of the Reports that are available on the CABA Web site can be found at: <https://www.caba.org/documents/forms/islist.pdf>.

### **7.4 New Business - Bob Allan (The Siemon Company)**

## **8. Announcements – Ron Zimmer (CABA)**

### **8.1 Past Events Overview:**

- [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](#)
- [TM FORUM LIVE!, May 14-16, Nice, France](#)

## 8.2 Upcoming Events:

- [IBcon 2018 – Realcomm, June 6-7, Las Vegas, NV](#)
- [InfoComm 2018, June 6-8, Las Vegas, NV](#)
- [2018 NEEP Summit, Oct 2-3, Middletown, RI](#)
- [interlight MOSCOW, Nov 6-9, Moscow, Russia](#)
- [Greenbuild International Conference and Expo, Nov 14-16, Chicago, IL](#)

## 8.3 Next IBC Meeting

Bob Allan (The Siemon Company) noted that the next IBC meeting will be held early August, 2018 via Webinar.

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

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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 June 22, 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](mailto:walker@caba.org)  
Phone: 613.686.1814 x227  
Website: <http://www.caba.org>

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