



CABA Intelligent Buildings Council (IBC)
Draft Meeting Minutes
Tuesday, Aug 14, 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:

ARC Advisory Group, Alex Chatha
ARC Advisory Group, Andy Chatha
Arden Media Company, LLC, Urvashi Verma
BC Hydro, David Rogers
BC Hydro, Graham Henderson
Belimo Americas, Justin Lindstrom
Belimo Americas, Mike Knipple
Brainwave Research Corp., Rene Pardo
BSRIA Inc., Aanal Bhagat
CABA, Andrew Glennie
CABA, Greg Walker
Cimetrics, Inc., Jim Lee
Cimetrics, Inc., Svetlana Lyons
CSA Group, Ana Tomlinson
CSA Group, Laura Elan
CSA Group, Rodger Redd
Eagle Technology, Inc., Harshad Shah
Garal Bravetek, S.A., Jim Hrastovcak
GE (General Electric), Jeremy Yon
GE (General Electric), JP Camardo
Green Power Labs Inc., Ron Omessi
Honeywell International Inc., Debra Becker
Honeywell International Inc., Harsha Chandrashekar
IEC Systems, Richard Jackson
IEEE Standards Association, Fawzi Behmann
Intel Corporation, Janine Davison
Intesis Software SLU, Sean Gaines

JLL, Jiri Skopek
Johnson Controls Inc., Alison Hong
Johnson Controls Inc., Joseph Klotz
Ken Wacks Associates, Kenneth Wacks
LonMark International, Ron Bernstein
National Research Council, Trevor Nightingale
Navigant Research, Courtney Marshall
Navigant Research, Neil Strother
Panduit Corp., Marc Goodman
PLC Multipoint, Inc., Joseph Briscoe
Public Services and Procurement Canada, Marek Dziedzic
Quantum New Energy, Patricia Vega
Samsung Electronics Co., Ltd., Uwe Thomas
Siemens Industry, Inc., Pornsak Songkakul
Siemens Industry, Inc., Richard Rivera
Solbright Group, Inc., Michael Davies
Sustainable Resources Management, David Katz
Switch Automation Inc., Peter Rake
Telecommunications Industry Association (TIA), Harry Smeenk
Telecommunications Industry Association (TIA), Limor Schafman
Telecommunications Industry Association (TIA), Marta Soncodi
The Chicago Faucet Company/Gerberit Group, Ronn Jefferson
UL LLC, Dustin Steward
WSP USA, Keith Rogers

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), Joseph Klotz (Johnson Controls Inc.), James Lee (Cimetrics, Inc.), Ron Bernstein (Ron Bernstein Consulting Group, RBCG, 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 May 30, 2018 IBC meeting were circulated and were posted on the CABA website in the IBC section: www.caba.org/ibc.

Motion to approve the May 30, 2018 IBC minutes was moved by Trevor Nightingale (National Research Council) and the motion was seconded by David Katz (Sustainable Resources Management). Unopposed motion passed.

4. "Buildings Automation Integration" Special Panel Discussion -- Ken Wacks (Ken Wacks Associates), Joseph Klotz (Johnson Controls Inc.), James Lee (Cimetrics, Inc.), Ron Bernstein (Ron Bernstein Consulting Group, RBCG, LLC) (30 Minutes)



Ken Wacks (Moderator)
President
Ken Wacks Associates

KENNETH WACKS, Ph.D.
Management & Engineering Consultant



Joseph Klotz
Business Development
Manager, BAS and
Controls Sales North
America
Johnson Controls



James Lee
Founder, CEO
Cimetrics Inc.



Ron Bernstein
President
RBGC, LLC



Greg Walker (CABA) introduced Ken Wacks (Ken Wacks Associates), Joseph Klotz (Johnson Controls Inc.), James Lee (Cimetrics, Inc.), and Ron Bernstein (Ron Bernstein Consulting Group, RBCG, LLC) and outlined their background and experience. Ken Wacks (Ken Wacks Associates) moderated this 30 minute panel discussion. [CLICK HERE](#) to access the recorded presentation and PowerPoint slides.

5. Research Update - Trevor Nightingale (National Research Council),
Harsha Chandrashekar (Honeywell International Inc.)

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



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](#).

CABA members currently signed up to support Phase 2 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.)

5.2 “Monetization of Intelligent Buildings” Update - Harsha Chandrashekar (Honeywell International Inc.)



Harsha Chandrashekar (Honeywell International Inc.) 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

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. 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:

“Human Skin Cells: A Potential Source of Building Contaminants”
Working Group
Environmental Diagnostics Laboratory (EDLab) at Pure Air Control Services, Inc.

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.

“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.
EZ Meter Technologies
Schneider Electric
Sustainable Resources Management

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

“Automated Control Systems for Zero Emission Buildings”

Working Group

Ecotay Inc.

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

7. New Business – Andrew Glennie (CABA), Trevor Nightingale (National Research Council)

7.1 New CABA Member Benefit: CABA Information Council (CIC) - Andrew Glennie (CABA)

Andrew Glennie (CABA) gave an update of this new CABA Member Benefit. The CABA Information Council identifies and reviews white papers and research for the CABA Information Series, the most authoritative source for technical information in the home and large building automation sectors. CABA Information Series reports are published both in the CABA Public Research

Library and the CABA Member Research Library. The members of the council, terms of reference and other information can be found [HERE](#). Ken Wacks, CIC Chairman, also provided information on the CIC and encouraged CABA members to join the CIC. Reviewers receive \$25/review of each new report. There have already been 250+ new research reports added to the library in 2018!

7.2 New Business - Trevor Nightingale (National Research Council)

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.

8. Announcements – Greg Walker (CABA)

Greg Walker (CABA) noted that the next IBC meeting will be held early November, 2018 via Webinar.

8.1 Past Events Overview:

- [IBcon 2018 – Realcomm, June 6-7, Las Vegas, NV](#)
- [InfoComm 2018, June 6-8, Las Vegas, NV](#)

8.2 Upcoming Events:

- [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](#)
- [Next IBC Meeting, Oct/Nov 2018](#)

8.3 Next IBC Meeting

- ## **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 Aug 31, 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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