

**CABA Intelligent & Integrated Buildings Council (IIBC)
Draft Meeting Minutes
Tuesday, October 28, 2014
12 Noon - 1:30 PM ET, via Webinar**

CABA Intelligent & Integrated Buildings Council (IIBC) Meeting

Present:

**Ingersoll Rand/Trane, Jeff Hamilton (IIBC Chair)
Honeywell International, Inc., Debra Gondeck-Becker (IIBC Vice-Chair)**

BSRIA, Jeremy Towler
CABA, Bill Saunders
CABA, Greg Walker
CABA, Ron Zimmer
Cadillac Fairview Corporation, Scott McBrayne
Canadian Gas Association, Hugo Schotman
Canadian Home Builders Association, Sonja Winkelmann
Eagle Technology, Inc., Harshad Shah
Emerge Alliance, Brian Patterson
exp. US Services, Inc., Chris Larry
Honeywell International, Inc., Debra Gondeck-Becker
Honeywell International, Inc., Liana Kiff
Independent Consultant, Ravi Seethapathy
Ingersoll Rand/Trane, Jeff Hamilton
Johnson Controls, Scott Herman
Ken Wacks Associates, Kenneth Wacks
Natural Resources Canada, Evguenly Entchev
Navigant Research, Benjamin Freas
Navigant Research, Noah Goldstein
Pella Corporation, Larry Ehlinger
Philips Research, Maulin Patel
Philips Research North America, Dagnachew Birru
Public Works and Government Services Canada, Marek Dziedzic
Siemens Industry Inc., Udo Drafz
Sustainable Resources Management, David Katz
TELUS, Jordan Melzer
Tractica, Clint Wheelock

1. Welcome and Introductions – Jeff Hamilton (Ingersoll Rand/Trane), Greg Walker (CABA)

Jeff Hamilton welcomed everyone, and introduced: Greg Walker (CABA), Hugo Schotman (Canadian Gas Association) and Evguenly Entchev (Natural Resources Canada), Brian Patterson (Emerge Alliance) and Debra Gondeck-Becker (Honeywell International, Inc.). Jeff Hamilton thanked everyone for attending and outlined the role of the IIBC. Greg Walker (CABA) recorded all the attendees for the minutes.

2. Review Past Minutes – Jeff Hamilton (Ingersoll Rand/Trane)

Jeff Hamilton indicated that the previous IIBC meeting minutes (June 26, 2014) had been circulated and posted on the CABA website in the IIBC section: <http://www.caba.org/iibc>

A motion was made to approve the June 2014 minutes without amendments, the motion was seconded, and the motion was passed.

3. IIBC Research Update – Greg Walker (CABA)

3.1 IIBC Landmark Research for 2014: ‘Intelligent Buildings and Big Data’

An overview of the research prospectus was given. CABA, Navigant Research, and the IIBC are actively seeking additional sponsors for this project and a request for sponsors was made. The full prospectus and additional information can be found at:

<http://www.caba.org/research/projects/intelligent-buildings-big-data>

Currently, twenty (21) CABA members have already sponsored this project:



3.2 'Intelligent & Integrated Building Technologies: Market Sizing North America Version 2'

An overview of the research prospectus was given. BSRIA was selected as the research firm for this project. CABA, BSRIA, and the IIBC are actively seeking additional sponsors for this project and a request for sponsors was made. The full prospectus and additional information can be found at: <http://www.caba.org/research/projects/market-sizing-NA-version2>

Currently, fourteen (14) CABA members have already sponsored this project:



3.3 'Zero Net Energy Buildings: Building Intelligent Controls Driving Success'

An upcoming Webinar was announced for this project on November 6, 12noon – 1pm ET, anyone who is interested is encouraged to attend. A link was forwarded to register for this Webinar.

An overview of the research prospectus was given. This project has been approved by the IIBC and the New Buildings Institute (NBI) has been selected to conduct this research. CABA, NBI, and the IIBC are actively seeking addition sponsors for this project and a request for sponsors was made. The full prospectus and additional information can be found at: <http://www.caba.org/research/projects/zero-net-energy-buildings>

Currently, six (6) CABA members have already sponsored this project:



3.4 Proposed CABA Projects: Lawrence Berkeley National Laboratory (LBNL), FLEXLAB

Greg gave an overview of the Facility for Low Energy Experiments (FLEXLAB) facilities at the Lawrence Berkeley National Laboratory. This working group was previously approved by the IIBC. The goal of this working group is to develop a full non-market (demonstrative) research prospectus to bring to the IIBC for approval and funding. A call was made to any organization who would like to join this working group. We are looking specifically for lighting and utility companies to get involved but all are welcome. More information can be found at: <http://flexlab.lbl.gov/>
The general research proposal can be found at: <http://www.caba.org/iibc>

Working Group:

AMX - Shawn Brechbill
Cadillac Fairview Corporation - Scott McBrayne
exp. US Services, Inc. - Jim Boggs
Honeywell HBS - Wendy Foslien
Honeywell International, Inc. - Liana Kiff
LBNL - Cindy Regnier
Pella Corporation - Larry Ehlinger
Sustainable Resources Management - David Katz
The Clariant Group - Michael Carter

3.5 Suggestion for 2015 CABA Research:

A call was made for 2015 IIBC Landmark research topic suggestions. Suggestions will be compiled and brought to the IIBC at a later date for a formal vote. From previous meetings of the IIBC, Cybersecurity of Intelligent Buildings appears to be the leading topic of interest.

3.6 CABA eStore:

It was mentioned that CABA recently become a reseller of primary research. This will give CABA members an additional 10% discount off the regular purchase price of research. CABA research firm members that have already posted research in the CABA eStore include: BSRIA, Compass Intelligence LLC, IGI Group, Memoori, Navigant Research, and ON World. Link: <http://estore.caba.org/>

4. IIBC White Paper Sub-Committee (WPSC) Update

Ken Wacks (Ken Wacks Associates), White Paper Sub-Committee Chair

An overview was given of the IIBC white paper review process, completed IIBC white papers, and papers in progress. IIBC 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 educate the industry. In order for the papers to be approved by the IIBC White Paper Sub-Committee (WPSC), they must be applicable to the IIBC, not marketing material, and not promote an agenda. Any CABA member can, and is encouraged to, bring forward a 2-3 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 IIBC white papers are placed in the CABA Public Library, Members Library, CABA NewsBrief, and promoted at industry events. To view the IIBC white paper terms of reference, and additional information, please go to: <http://www.caba.org/iibc>

4.1 Completed:

'Toward Net Zero Energy (NZE) Super High Rise Commercial Buildings'

The complete paper can be found at: <http://www.caba.org/iibc>

Ken Wacks (Ken Wacks Associates) gave a brief overview of this paper

4.2 Approved Proposals:

4.2.1 'Cybersecurity and Intelligent Buildings'

Working Group:

Frost & Sullivan, Pramod Dibble (Author)
Siemens Industry Inc., Raphael Imhof
Siemens Industry Inc., Udo Drafz

An update was given by Udo Drafz (Siemens), the final draft is nearing completion and it will be ready for the next IIBC White Paper Sub-committee Meeting in early December.

4.2.2 'Improving Organizational Productivity with Building Automation Systems'

Working Group:

Andrews University, Jay Brand
National Research Council, Alexandra Thompson (Author)
National Research Council, Guy Newsham (Author)
National Research Council, Jennifer Veitch (Author)
Oxford Properties, Liviu Botan
TD Bank, Graham Takata
University of Western Ontario, John Meyer
US General Services Administration, Judi Heerwagon

Greg Walker gave an update; the final draft of this paper is almost complete and will be available for publication soon.

4.3 General Discussion and Call for New White Paper Topics

Ken Wacks (Ken Wacks Associates) announced that there is a paper under development on “High-Quality Multimedia Distribution in Commercial Buildings” from Gabriel Shirki (Valens Semiconductor Inc.) and Ken Wacks (Ken Wacks Associates).

Ken Wacks (Ken Wacks Associates) announced a proposed white paper from David Katz (Sustainable Resources Management) on 'Intelligent Buildings: Cap and Trade'. The Canadian Standards Association (CSA) will likely be on the working group of this paper.

Ken Wacks (Ken Wacks Associates) asked if the IIBC would accept a previously approved paper from the Connected Home Council (CHC) 'On Intelligent Home Offices – A Model and Potential Impacts', because this paper overlaps with the interested of the IIBC. This request was approved by the IIBC.

A call for working group volunteers was made and anyone interested is encouraged to contact Greg Walker (CABA).

5. Industry Profiles - Jeff Hamilton (Ingersoll Rand/Trane)

5.1 Smart Energy Network Task Force (Send TF) – Hugo Schotman (Canadian Gas Association), Evgueniy Entchev (Natural Resources Canada)

The Smart Energy Network (SEN) concept builds on the Smart Grid concept, but extends it by optimizing the integration of all available energy sources, including electricity, natural gas and thermal, within a cluster of residential and commercial buildings. A SEN uses advanced ICT to deliver the most efficient end-user energy services, while integrating distributed energy and renewables, and relieving electric grid congestion by conversion and storage of energy.

5.2 EMerge Alliance - Brian Patterson (EMerge Alliance)

An open industry association developing standards leading to the rapid adoption of DC power distribution in commercial buildings. These innovative standards integrate interior infrastructures, power, controls and devices in a common microgrid platform to facilitate the hybrid use of AC

and DC power throughout buildings for unprecedented design and space flexibility, greater energy efficiency and improved sustainability. For more information go to: <http://www.emergealliance.org/Home.aspx>

6. Next CABA Intelligent Buildings & Digital Home Forum – Greg Walker (CABA).

Greg introduced the next CABA Intelligent Buildings & Digital Home Forum will be held in Austin, Texas from April 14 - 16, 2015. CABA will be collocating with the Broadband Community Summit, which will have a combined total of 1,000+ industry professionals. For more information on this event, please go to: <http://www.caba.org/caba-forum-2015>. Also included with the Intelligent & Integrated Building Sessions are Keynotes, receptions, networking events, and an IBM Labs tour hosted by IBM. The IIBC (face-to-face) meeting will also be held at this event, more info will be forwarded in the near future.

6.1 Call for Session Topics

- a) Building Commissioning/optimization
- b) Cybersecurity of Buildings
- c) Zero Net Energy Buildings and beyond

Those interested in proposing a session topic please contact Greg Walker (CABA) before December 31, 2014.

6.2 Call for Speakers (Keynote and session)

Those interested in speaking please request the official 'call for speakers' link from CABA before December 31, 2014.

6.3 Call for Research Workshop Topics

Those interested in proposing a workshop please contact Greg Walker (CABA) before December 31, 2014.

7. CABA Strategic Plan – Ron Zimmer (CABA)

Ron Zimmer informed the IIBC that CABA is undergoing a strategic planning survey of the entire CABA membership. This survey will be used by CABA and the CABA Board of Directors to help better understand what is important to CABA members and it will help shape the direction of CABA in the future.

8. Call for New Business – Jeff Hamilton (Ingersoll Rand/Trane)

Jeff Hamilton proposed an in person meeting of the IIBC at the next AHR conference in Chicago on January 27, 2015. There were no objections from the IIBC.

9. Adjournment (1:30 PM ET) - Jeff Hamilton (Ingersoll Rand/Trane)

Next IIBC Meeting – January 2015

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You can view all IIBC participants, past minutes, etc. at: <http://www.caba.org/iibc>. Don't hesitate to contact the CABA office (613.686.1814 X228/ 888.798.CABA) if you have any questions.

Regards,

Greg Walker
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