

CABA Intelligent & Integrated Buildings Council (IIBC) Meeting

Tuesday, June 26, 2015 1:00 PM – 2:30 PM (ET)

Via Webinar

Ingersoll Rand, Jeff Hamilton (IIBC Chair)

**Honeywell International, Inc., Debra Gondeck-Becker (IIBC Vice-Chair,
Acting Chair)**

Present:

CABA, Greg Walker

CABA, Rawlson King

Enbridge, Inc., Corrie Morton

Enbridge, Inc., Tariq Qurashi

exp US Services, Inc., Tom Lohner

George Brown College, Amir Shabani

Honeywell International, Inc., Brian Casey

Honeywell International, Inc., Debra Gondeck-Becker (Acting IIBC Chair)

Ken Wacks Associates, Ken Wacks

Lawrence Berkeley National Laboratory (LBNL), Eleanor Lee

Liberty Property Trust, Fred Dougherty

National Research Council (NRC), Guy Newsham

Navigant Research, Casey Talon

Navigant Research, Lauren Callaway

Navigant Research, Noah Goldstein

Navigant Research, Benjamin Freas

PLC Multipoint, Inc., Ronda McCullar

PLC Multipoint, Inc., Joe Briscoe

Siemens Industry, Inc., David Thurow

Siemens Industry, Inc., Richard Nortier

Sustainable Resources Management Inc., David Katz

Ingersoll Rand/Trane, Gene Shedivy

United Technologies (UTC), Mike DeNamur

Valens, John Marshall

1. Welcome and Introductions - Debra Gondeck-Becker (Honeywell International, Inc.), Greg Walker (CABA)

Debra Gondeck-Becker (Honeywell) welcomed everyone and introduced: Greg Walker (CABA), Guy Newsham (National Research Council, NRC), Ken Wacks (Ken Wacks Associates), John Marshall (Valens), Eleanor Lee (Lawrence Berkeley National Laboratory, LBNL). Debra noted that Jeff Hamilton sends his regrets as he was unable to attend this meeting. Debra

thanked everyone for attending and outlined the agenda and role of the IIBC.

2. Review Past Minutes - Debra Gondeck-Becker (Honeywell International, Inc.),

Debra Gondeck-Becker (Honeywell International, Inc.) indicated that there was a previous informal IIBC round table discussion at the CABA's Intelligent Buildings & Digital Home Forum in Austin, TX on April 15, 2015. Debra informed everyone that the meeting minutes from the January 27, 2015 IIBC meeting were circulated and were posted on the CABA website in the IIBC section: <http://www.caba.org/iibc>.

Motion to approve the January, 2015 minutes was made by Noah Goldstein (Navigant Research), this motion was seconded by Brian Casey (Honeywell International, Inc.). Minutes approved.

3. IIBC Research Update - Greg Walker (CABA), Guy Newsham (National Research Council, NRC)

3.1 “Intelligent Buildings and Big Data” - Greg Walker (CABA)

A brief overview of this \$150,000 USD research project was given. The executive summary of this research project can be found in the CABA Members Library and at:

<http://docs.caba.org/MarketingEmailer/IBBD%20Exec%20Summary.htm>.

Twenty-four (24) CABA members funded this project:



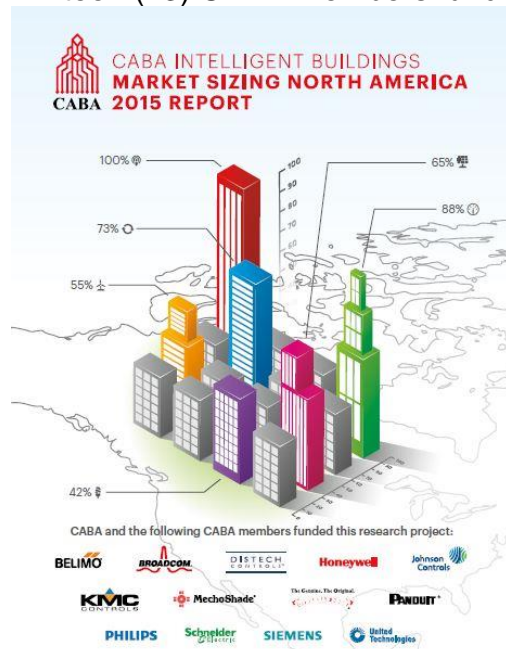
CABA AND THE FOLLOWING CABA MEMBERS FUNDED THIS RESEARCH PROJECT:



3.2 “Intelligent Buildings Market Sizing North America 2015 Report” - Greg Walker (CABA)

A brief overview of this \$150,000 USD research project was given. The executive summary of this research project can be found at: <http://www.caba.org/member-research-library>.

Thirteen (13) CABA members funded this project:



3.3 “Zero Net Energy Buildings: Building Intelligent Controls Driving Success” - Greg Walker (CABA)

A brief overview of this \$120,000 USD research project was given. CABA, New Buildings Institute (NBI), and the IIBC are actively seeking additional funders for this project and a request for more funders was made. The full prospectus and additional information can be found at: <http://www.caba.org/research/projects/zero-net-energy-buildings>.

Seventeen (17) CABA members are funding this project:



3.4 “Improved Performance Metrics for Advancing Smart Buildings Controls” - Greg Walker (CABA)

Greg gave a brief overview of this proposed research project. If no funders come forward to support this project in the near future the project will be put on hold for the time being. The research proposal can be found at: <http://www.caba.org/iibc>.

3.5 Next IIBC Landmark Research: “Intelligent Buildings and Cybersecurity” - Greg Walker (CABA)

A brief overview of this \$150,000 USD research project was given. CABA, Compass Intelligence, and the IIBC are actively seeking additional funders for this project and a request for funders was made. The full prospectus and additional information can be found at: <http://www.caba.org/intelligentbuildingcybersecurity/>

Fifteen (15) CABA members are currently funding this project:



3.6 Proposed Improving Organizational Productivity with Building Automation Systems - Guy Newsham (National Research Council, NRC)

A brief overview of this \$150,000 – \$200,000USD research project was given. The full prospectus and additional information can be found at: <http://www.caba.org/productivity>

Motion for the IIBC and CABA attempting to acquire funding for this project was made by David Katz (Sustainable Resources Management Inc.). The motion was seconded by Tom Lohner (exp US Services, Inc.). Motion passed.

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

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 - Ken Wacks (Ken Wacks Associates)

All completed IIBC White Papers can be found at:
<http://www.caba.org/iibc>.

4.2 In Progress - Ken Wacks (Ken Wacks Associates)

There are currently four (4) CABA IIBC White Papers being completed. If you or someone that you know would like to join one or more of these White Paper working groups, please contact Greg Walker (CABA) at walker@caba.org.

“The New Role of Automated Buildings in the 21st Century Enernet”

Brian Patterson, EMerge Alliance (Author)
Ann Edminster, Design AVenues Inc.
Dennis Kyle, Independent
Steve Frank, National Renewable Energy Laboratory
Terry Hill, Passive House Institute US (PHIUS)

“How Can Printable Electronics Enable Existing BAS Systems”

Peter Kallai, CPEIA (Author)
Christopher Larry, exp. US Services, Inc.
Florent Lefèvre, L'Université du Québec à Montréal (UQAM)
Gaozhi (George) Xiao, National Research Council/IEEE
Hugo Lafontaine, Regulvar Canada
Konkana Khaund, Frost & Sullivan
Michael Tischler, Cooledge Lighting
Noah Goldstein, Navigant Research
Stephen Brown, CSA Group
Tatiana Khayrullina, CSA Group
Thomas Ducellier, National Research Council
Vlad Skorokhod, XRCC
Wolf Richter, Epic Semiconductor

Project-Haystack Organization and CABA

Marc Petock, Lynxspring, Inc. (Author)
Casey Talon, Navigant Research
John Petze, SkyFoundry

“Intelligent Buildings: Cap and Trade”

David Katz, Sustainable Resources Management (Author)
Keith Robinson, Compass Intelligence

- 5. Industry Profiles** - Debra Gondeck-Becker (Honeywell International, Inc.), John Marshall (Valens), Eleanor Lee (Lawrence Berkeley National Laboratory, LBNL)

5.1 HDBaseT in Intelligent Buildings - John Marshall (Valens)

The CABA IIBC White Paper created by Valens was discussed, all CABA members can get access to this and other IIBC White Papers at: <http://www.caba.org/iibc>. Valens HDBaseT™ technology empowers plug-and-play digital connectivity between HD video sources and remote displays. 5Play feature set, converged through a single 100m/328ft CAT5e/6 cable enables the delivery of uncompressed high definition VIDEO, AUDIO, 100BaseT ETHERNET, various CONTROL signals, and up to 100W of POWER. HDBaseT has been recognized by leading electronics manufacturers, working together in a cross industry Alliance to define HDBaseT as the new global HD standard for advanced digital media distribution.

<http://www.valens.com/>

5.2 Active Integrated Perimeter Building Systems: Creating Ubiquitous Open, Interoperable Sustainable Solutions with the Internet of Things - Eleanor Lee (Lawrence Berkeley National Laboratory, LBNL)

CREATING LOW-ENERGY FAÇADE SOLUTIONS FOR TODAY'S BUILDINGS: New fenestration technologies and systems that optimize the synergies between the façade, lighting, and mechanical systems can deliver high performance throughout a building's lifespan. These "integrated" solutions represent a key opportunity to significantly reduce energy and demand, helping to move us toward our goal of zero net energy buildings by 2030. For more information please go to: <http://facades.lbl.gov/>. CABA IIBC members were encouraged to get involved, if you would like to get more information or would like to get involved please contact Greg Walker (CABA) at walker@caba.org.

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

6.1 NIBS, RICS to Explore P3 as Tool to Achieve High-Performance Buildings

Two organizations focused on leadership in the built environment are now working in unison to explore ways public-private partnerships (P3) can be used to achieve high-performance buildings. The National Institute of Building Sciences (NIBS) and the Royal Institution of Chartered Surveyors (RICS) are bringing together international experts on the utilization of P3 to address current government challenges and advance the achievement of a high-performance building stock. More information on this effort can be found at: <http://www.rics.org/ca/> and <http://www.nibs.org/>.

7. Announcements - Debra Gondeck-Becker (Honeywell International, Inc.)

7.1 CABA Greenbuild Pavilion

Debra Gondeck-Becker (Honeywell International, Inc.) outlined that CABA will be coordinating a “Connected Home and Intelligent Buildings Pavilion” at Greenbuild 2015. This will take place Nov. 18-20, 2015 in Washington, DC. This CABA Pavilion will be located next to the EMerge Alliance “The Net Zero Zone and Microgrid Showcase”, both of these pavilions will greatly increase the quality of traffic for the exhibitions. To get preferred exhibit rates contact the George Grimes at grimes@caba.org. For more information please to: <http://greenbuildexpo.com/>.

8. Adjournment (1:30 PM ET) - Debra Gondeck-Becker (Honeywell International, Inc.)

Next IIBC Meeting - Fall 2015

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Please review these draft minutes and notify CABA if there are any changes required. Also, any CABA member attending this meeting will be added to the CABA IIBC unless CABA is notified by August 19, 2015.

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

CABA Research Director

Continental Automated Buildings Association (CABA)

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