

## **CABA Intelligent & Integrated Buildings Council (IIBC) Meeting**

Tuesday, Jan. 27, 2015 4:00 PM – 5:30 PM (CT)

Collocated with ASHRAE/AHR Expo

Room S102d - McCormick Place, Chicago, IL

### **Present:**

**Ingersoll Rand, Jeff Hamilton (IIBC Chair)**

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

Acuity Brands, Toren Boren

Anixter, Inc., Larry Heilser

Arup Group Limited, Armen Topakian

AutomatedBuildings.com, Ken Sinclair

BROAD Air Conditioning Co. Ltd., Douglas Davis

BSRIA Limited, Jeremy Towler

BSRIA Limited, Zoltan Karpathy

Building Commissioning Association (BCA), Liz Fischer

CABA, Bill Saunders

CABA, Greg Walker

CommScope, Inc., Matias Peluffo

Construction Business Media, LLC, Jim Crockett

CoR Advisors, Darlene Pope

Eagle Technology, Inc., Harry Kohal

Eagle Technology, Inc., Harshad Shah

Enbridge Gas Distribution, Inc., Zhentao Wei

exp US Services, Inc., Christopher Larry

Frost & Sullivan, Aanchal Singh

Frost & Sullivan, Maurice Okawaki

Frost & Sullivan, Pramod Dibble

Honeywell International, Inc., John Isherwood

Honeywell International, Inc., Paula Marty

Honeywell International, Inc., Thurman Melson

Honeywell International, Inc., Aswini (Ash) Vallampati

IHS Global Limited, Paul Everett

Intelligent Buildings LLC, Rob Murchinson

Intermatic Incorporated, Rosemary McGuire

Intermatic Incorporated, Barbara Farrah

Intermatic Incorporated, Elizabeth Jacobs

Ken Wacks Associates, Kenneth Wacks

Lawrence Berkeley National Laboratory (LBNL), Stephen Selkowitz

LIGHTFAIR INTERNATIONAL, Rochelle Richardson

LIGHTFAIR INTERNATIONAL, Eilly McCloud

METZ CONNECT USA, Inc., Torsten Janwlecke

Navigant Research, Benjamin Freas  
Navigant Research, Brett Feldman  
PaceControls, Richard Kolk  
PaceControls, Thomas Mills  
Panduit Corp, Joseph Kassl  
PCN Technology, Inc., Daniel Drolet  
PLC Multipoint, Inc., Joe Briscoe  
PLC Multipoint, Inc., Ronda McCullar  
Realcomm, Lisa Woods  
RTKL Associates, Inc., Darren Vican  
Siemens Industry, Inc. Udo Drafz  
Siemens Industry, Inc., David Thurow  
Siemens Industry, Inc., Pornsak Songkakul  
Siemens Industry, Inc., Raphael Imhof  
SkyFoundry, LLC, John Petze  
Sustainable Resources Management Inc., David Katz  
Texas A&M University, Charles Culp  
Texas A&M University, David Claridge  
Trade Press Media Group, Inc., Naomi Millan  
Trane/Ingersoll Rand, Dan Poggi  
Trane/Ingersoll Rand, Leon Hawkins  
United Technologies (UTC), Mead Rusert  
Verizon, Edward Lopez

**1. Welcome and Introductions** - Jeff Hamilton (Ingersoll Rand), Greg Walker (CABA)

Jeff welcomed everyone and introduced: Debra Gondeck-Becker (IIBC Vice-Chair, Honeywell International, Inc.), Greg Walker (CABA), Jeremy Tower (BSRIA) and Benjamin Freas (Navigant Research). Jeff thanked everyone for attending and outlined the agenda and role of the IIBC. He also thanked LIGHTFAIR INTERNATIONAL for sponsoring the food and refreshments, and indicated there would be a prize draw at the end of the meeting.

**2. Review Past Minutes** - Jeff Hamilton (Ingersoll Rand)

Jeff indicated that the previous IIBC meeting minutes (October 28, 2014) had been circulated and posted on the CABA website in the IIBC section: <http://www.caba.org/iibc>

**3. IIBC Research Update** - Jeff Hamilton (Ingersoll Rand), Greg Walker (CABA), Benjamin Freas (Navigant Research)

### 3.1 IIBC Landmark Research for 2014: “Intelligent Buildings and Big Data” - Benjamin Freas (Navigant Research)

An overview of this \$150,000 USD+ research project 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-~~three~~-four (24) CABA members have already sponsored this project:





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

An overview of this recently completed \$150,000 USD research project was given. The Executive Summary of this research report will be made available to all those attending this IIBC meeting, and all CABA members. If you are a CABA member and would like to access the Executive Summary please visit our CABA members only library at: <http://www.caba.org/member-research-library>

Thirteen (13) CABA members have sponsored this project:



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

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The first Steering Committee meeting on February 17, 12 Noon – 1 PM ET, was announced.

An overview of the research 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, fourteen (14) CABA members have already sponsored this project:



### 3.4 Proposed CABA Projects: Lawrence Berkeley National Laboratory (LBNL), FLEXLAB - Greg Walker (CABA)

Greg gave an overview of the Facility for Low Energy Experiments (FLEXLAB) at the Lawrence Berkeley National Laboratory. This working group was previously approved by the IIBC. The goal of this working group was to develop a full non-market (demonstrative) research prospectus to bring to the IIBC for approval and funding. The 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 Next IIBC Landmark Research: Cybersecurity and Intelligent Buildings** - Jeff Hamilton (Ingersoll Rand)

Cybersecurity and Intelligent Buildings was the topic tentatively selected by the IIBC as the next IIBC Landmark Research project. There was a general discussion on the topic. A vote will be sent out to the IIBC along with these minutes to officially select Cybersecurity and Intelligent Buildings as the next IIBC Landmark research project.

**4. IIBC White Paper Sub-Committee (WPSC) Update** - Greg Walker (CABA)

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 (2015):**

All papers can be found at: <http://www.caba.org/iibc>

**“Improving Organizational Productivity with Building Automation Systems”**

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

**“High-Quality Multimedia Distribution in Commercial Buildings”**

Ken Wacks Associates, Ken Wacks (Author)  
Valens Semiconductor Inc., Gabriel Shirki

**“On Intelligent Home Offices – A Model and Potential Impacts”**

Asian Institute of Intelligent Buildings, Albert So (Author)  
University of Hong Kong, Kwok Wong  
Ken Wacks Associates, Ken Wacks  
Sustainable Resources Management, David Katz

## **4.2 In-Progress**

**“Cybersecurity in Smart Buildings: Preventing Vulnerability While Increasing Connectivity”**

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

**“Intelligent Buildings: Cap and Trade”**

Sustainable Resources Management, David Katz  
Compass Intelligence, Keith Robinson

**“Upgrading Critical Facilities, Factories and Installations to meet the needs of the Industrial Internet of Things”**

PCN Technology, Inc., Daniel Drolet (Author)  
Ken Wacks Associates, Ken Wacks  
Compass Intelligence, Keith Robinson

**“Building Power Systems and their potential impact on Intelligent Building Controls and the Achievement of Zero Net Energy Use”**

EMerge Alliance, Brian Patterson (Author)

## **4.3 New White Paper Topics**

**Interoperability**

University of Regina, Brittany Hack (Author)  
Ken Wacks Associates, Ken Wacks

**Printable Electronics and Intelligent Buildings**

Canadian Printable Electronics Industry Association (CPEIA), Peter Kallai (Author)

**5. Industry Profiles** - Jeff Hamilton (Ingersoll Rand), Jeremy Towler (BSRIA), Debra Gondeck-Becker (Honeywell International, Inc.)

**5.1 “Intelligent Buildings Market Sizing North America 2015” Report**  
- Jeremy Towler (BSRIA)

An overview of this recently completed \$150,000 USD research project was given. The Executive Summary of this research report will be made available to all those attending this IIBC meeting and all CABA members. If you are a CABA member and would like to access this the Executive Summary, please visit our CABA members only library at: <http://www.caba.org/member-research-library>. Contact Brenda Williamson ([williamson@caba.org](mailto:williamson@caba.org)) if you require pass codes to access the CABA member library.

Thirteen (13) CABA members have sponsored this project:



**5.2 LEED Dynamic Plaque** - Debra Gondeck-Becker (Honeywell International, Inc.)

Debra outlined how the USGBC is implementing the LEED Dynamic Plaque. The LEED Dynamic Plaque is a building performance monitoring and scoring platform. It keeps tabs on how an entire building or even just your offices are doing in terms of energy use, water use, waste reduction, transportation impacts of your colleagues and also their view of the human experience while inside the space. More information can be found at: <http://www.usgbc.org/articles/meet-leed-dynamic-plaque>

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



Greg announced that 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 CABA Forum are keynote presentations, panels, receptions, workshops, networking events, and tours of Pecan Street, AT&T Labs and IBM Labs. An IIBC roundtable meeting (face-to-face) will also be held at this event. There is early-bird pricing and all registered CABA delegates can attend the Broadband Communities Summit free!

**7. New Business** - Jeff Hamilton (Ingersoll Rand)

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. To get preferred exhibit rates contact the CABA office or go to: <http://greenbuildexpo.com/>

**8. Announcements** - Jeff Hamilton (Ingersoll Rand), Rochelle Richardson (LIGHTFAIR INTERNATIONAL)

Rochelle Richardson, from LIGHTFAIR INTERNATIONAL, was introduced as the sponsor of the food and refreshments at the meeting. Rochelle outlined the opportunities for CABA members at this important event. It was also pointed out that CABA would be making a special presentation and sharing research at this event. A prize draw was held and PaceControls won!

Presentation by the meeting sponsor:



**LIGHTFAIR®INTERNATIONAL**

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

Next IIBC Meeting - April 2015

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Please review these 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 March 12, 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,

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Continental Automated Buildings Association (CABA)  
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