

**Draft Meeting Minutes**  
**CABA Intelligent & Integrated Buildings Council (IIBC) Meeting**  
**Friday, October 23, 2015**  
**12 Noon - 1:30 PM (ET) via Webinar**

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

Present:

1. BSRIA Limited, Jeremy Towler
2. CABA, Andrew Glennie
3. CABA, Greg Walker
4. CABA, Ron Zimmer
5. Canadian Printable Electronics Industry Association (CPEIA), Peter Kallai
6. CSA Group, Jim Green
7. CSA Group, Stephen Brown
8. Eagle Technology, Inc., Harshad Shah
9. exp US Services, Inc., Chris Larry
10. Fire Protection Research Foundation, Casey Grant
11. Honeywell International, Inc., Debra Gondeck-Becker
12. Honeywell International, Inc., Seth Rourke
13. Ingersoll Rand, Gene Shedivy
14. Ken Wacks Associates, Ken Wacks
15. National Research Council (NRC), Trevor Nightingale
16. Public Works & Government Services Canada (PWGSC), Marek Dziedzic
17. Robert H. Lane & Associates Inc., Robert Lane
18. Siemens Industry, Inc., Udo Drafz
19. SkyFoundry, LLC, John Petze
20. Sustainable Resources Management Inc., David Katz
21. TelNet Management Consulting, Inc., Fawzi Behmann
22. Texas A&M University, David Claridge
23. The Siemon Company, Bob Allan
24. U.S. Green Building Council (USGBC), Gautami Palanki
25. United Technologies Corporation (UTC), Mike DeNamur

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

Greg Walker (CABA) thanked everyone for attending, made a roll call and outlined the agenda. Debra Gondeck-Becker (Honeywell International, Inc.) welcomed everyone and introduced: Ken Wacks (Ken Wacks Associates),

Peter Kallai (CPEIA) and Casey Grant (Fire Protection Research Foundation). Debra also outlined the role of the IIBC.

**2. Administrative** - Greg Walker (CABA), Debra Gondeck-Becker (Honeywell International, Inc.)

**2.1 We deeply regret to announce the passing of the IIBC Chair Jeff Hamilton (Ingersoll Rand) - Greg Walker (CABA)**

Greg Walker (CABA) indicated that it is with great sadness that we announce the passing, due to cancer, of the IIBC Chair Jeff Hamilton. Ron Zimmer (CABA), Gene Shedivy (Ingersoll Rand) and Debra Gondeck-Becker (Honeywell International, Inc.) said some kind words about Jeff and that he will be missed.

**2.2 Motion to elect Debra Gondeck-Becker (Honeywell International, Inc.) as the new IIBC Chair - Greg Walker (CABA)**

Motion to elect Debra Gondeck-Becker (Honeywell International, Inc.) as the new IIBC Chair was moved by Trevor Nightingale (NRC), the motion was seconded by David Claridge (Texas A&M University). Motion passed.

**2.3 Motion to approve past IIBC Minutes: [www.caba.org/iibc](http://www.caba.org/iibc)**  
- Debra Gondeck-Becker (Honeywell International, Inc.)

Debra Gondeck-Becker (Honeywell International, Inc.) informed everyone that the meeting minutes from the June 26, 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 June 26, 2015 IIBC minutes was moved by Chris Larry (exp US Services, Inc.), the motion was seconded by David Katz (Sustainable Resources Management Inc.). Motion passed.

**2.4 Call for IIBC Vice-Chair volunteers - Debra Gondeck-Becker (Honeywell International, Inc.)**

Debra Gondeck-Becker (Honeywell International, Inc.) made a call for a IIBC Vice-Chair Volunteer(s). Robert Lane (Robert H. Lane & Associates Inc.) and Bob Allan (The Siemon Company) expressed their interest in this position. All new Vice-Chair volunteers will be reviewed by the board of directors and approved. Any other CABA IIBC member that has an interest in becoming a CABA IIBC Vice-Chair should contact Debra Gondeck-Becker (Honeywell International, Inc.) or Greg Walker (CABA).

**3. Research Update** - Debra Gondeck-Becker (Honeywell International, Inc.), Greg Walker (CABA), Ron Zimmer (CABA), Trevor Nightingale (NRC)

**3.1 “Intelligent Buildings and Cybersecurity” Landmark Research** - Ron Zimmer (CABA), Greg Walker (CABA)

A brief overview of this \$150,000 USD research project was given. CABA, Compass Intelligence, LLC 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/CABA/Research/Intelligent-Buildings-Cybersecurity.aspx>

16 CABA members are currently funding this project:



**3.2 “Zero Net Energy Building Controls: Characteristics, Energy Impacts and Lessons”** - Greg Walker (CABA)

A brief overview of this \$130,000 USD research project was given. CABA, New Buildings Institute (NBI), and the IIBC have agreed to release this research to the industry on a complimentary basis. The final Steering Committee meeting will be held November 2, 2015 and the research will be released shortly after.

The full prospectus and additional information can be found at:

<http://www.caba.org/CABA/Research/Zero-Net-Energy-Buildings.aspx>

18 CABA members are currently funding this project:



Note: The Steering Committee agreed not to embargo this research and the full Report can be found on the CABA website and in the CABA Members Library.

### 3.3 “Improving Organizational Productivity with Building Automation Systems” - Trevor Nightingale (NRC)

Trevor Nightingale (NRC) gave a brief overview of this research project. CABA, NRC 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/CABA/Research/NRC-Research-Project.aspx>

3 CABA members are currently funding this project:



National Research  
Council Canada

Conseil national de  
recherches Canada



United Technologies  
Research Center

### 3.4 New IIBC Landmark Research for 2016 Discussion - Debra Gondeck-Becker (Honeywell International, Inc.)

Debra Gondeck-Becker (Honeywell International, Inc.) lead the discussion on the next IIBC Landmark research project that CABA should undertake in 2016. Some of the topics that were brought up include:

Intelligent Buildings IoT Roadmap - Greg Walker (CABA)

Intelligent Building and Commissioning - David Katz (Sustainable Resources Management Inc.)

Anyone with new suggestions can forward them to Greg Walker (CABA). Also, a survey of all the CABA members will be done shortly to finalize the next CABA IIBC Landmark Study.

### 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, previous IIBC white papers and additional information, please go to: <http://www.caba.org/IIBC>.

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

If you or someone that you know would like to join one or more of the following white paper working groups, please contact Greg Walker (CABA) at [walker@caba.org](mailto:walker@caba.org).

#### **4.1 “The New Role of Automated Buildings in the 21st Century Enernet” - Ken Wacks (Ken Wacks Associates)**

|                 |                                      |
|-----------------|--------------------------------------|
| Brian Patterson | EMerge Alliance                      |
| Ann Edminster   | Design AVEnues Inc.                  |
| Dennis Kyle     | Independent                          |
| Ken Wacks       | Ken Wacks Associates                 |
| Mandeep Khera   | Daintree Networks, Inc.              |
| Steve Frank     | National Renewable Energy Laboratory |
| Terry Hill      | Passive House Institute US (PHIUS)   |

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

#### **4.2 “How can Printable Electronics enable existing BAS systems?” - Peter Kallai (CPEIA)**

|                      |  |
|----------------------|--|
| Peter Kallai         | CPEIA                                    |
| Benjamin Freas       | Navigant Research                        |
| 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                        |
| Mo Salahuddin        | National Research Council                |
| Noah Goldstein       | Navigant Research                        |
| Stephen Brown        | CSA Group                                |
| Tatiana Khayrullina  | CSA Group                                |
| Thomas Ducellier     | National Research Council                |
| Vlad Skorokhod       | XRCC                                     |
| Wolf Richter         | Epic Semiconductor                       |

Peter Kallai (CPEIA) gave an overview of this paper.

#### **4.3 “Project Haystack White Paper” – John Petze (SkyFoundry)**

|                          |                                    |
|--------------------------|------------------------------------|
| Marc Petock              | Lynxspring, Inc.                   |
| John Petze               | SkyFoundry/Project Haystack        |
| Mathan Kumar Gopal Samy, | Philips                            |
| AJ Rossman               | Smart Resource Labs, LLC           |
| Allen Jones              | Engineering and Project Management |

|                         |                                       |
|-------------------------|---------------------------------------|
| Alvin Chen              | Navigant Research                     |
| Anno Scholten           | Connexx Energy                        |
| Blake Reimer            | CenturyLink                           |
| Casey Talon             | Navigant Research                     |
| Chris Faerber           | CenturyLink                           |
| Fred Gordy              | SMARTCORE                             |
| George Hernandez        | Department of Energy                  |
| Guanjing Lin            | Lawrence Berkeley National Laboratory |
| Herve F. Nouanegue      | Hydro-Québec                          |
| James Roberts           | SMARTCORE                             |
| John Alaimo             | CenturyLink                           |
| Julian Smith            | Setpoint Systems Corporation          |
| Keith Bishop            | Brady Intelligent Services            |
| Matthew Lohbihler       | StackHub LLC                          |
| Sachin Pawaskar         | Building System Solutions             |
| Selim (Sal) Tufekcioglu | CenturyLink                           |
| Steven Cernik           | The Clariant Group                    |
| Will Winn               | SMARTCORE                             |
| William Liu             | Shuimu Technology Co.,Ltd             |

John Petze (SkyFoundry) gave an overview of this paper.

**5. Industry Profiles** - Debra Gondeck-Becker (Honeywell International, Inc.)

**5.1 Intelligent Buildings and Printable Electronics** - Peter Kallai (CPEIA)

Peter Kallai (CPEIA) outlined how printable electronics can be used in intelligent buildings. He reviewed various application, including: Fire, Security, Identification & Access, Energy, Lighting, Lifts, Communications, 24/7 monitoring and HVAC. Established in 2014, the Canadian Printable Electronics Industry Association (CPEIA) brings together key Canadian and international players in industry, academia and government to build a strong Canadian PE sector. The Association is the united voice for the sector and implements critical development strategies to facilitate growth through networking, stimulate R&D and investment, build a strong PE supply chain and drive the broad adoption of PE by end-customers. For more information please go to: <http://cpeia-acei.ca/>.

**5.2 Smart Fire Protection for Intelligent Buildings** - Casey Grant (Fire Protection Research Foundation)

Casey Grant (Fire Protection Research Foundation) reviewed the finding of the “Research Roadmap for Smart Firefighting” research report that was developed by the Fire Protection Research Foundation. The complete 247 page report can be accessed for free at: <http://www.nfpa.org/SmartFirefighting>.

For more information about the Fire Protection Research Foundation, please go to: <http://www.nfpa.org/research/fire-protection-research-foundation>.

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

Debra Gondeck-Becker (Honeywell International, Inc.) mentioned the new CABA website and the significant improvements that have been made to it.

David Katz (Sustainable Resources Management Inc.) brought up the BIQ version two. Ron Zimmer (CABA) noted the importance of these types of initiatives and mentioned that Jones Lang LaSalle owns the BIQ. He further indicated that when the BIQ is updated, it should be again brought forward to the IIBC for discussion.

**7. Announcements** - Debra Gondeck-Becker (Honeywell International, Inc.), Ron Zimmer (CABA)

Upcoming events:

**7.1 Greenbuild International Conference and Expo, November 18-20, Washington, DC**

**7.2 CES International 2016, January 6-9, Las Vegas**

**7.3 International Home Builders Show, January 19-21, Las Vegas, NV**

**7.4 ASHRAE AHR Expo, January 25-27, Orlando, FL**

**7.5 CABA Intelligent Buildings & Digital Home Forum, April 26-28, San Diego, CA**

**7.6 LIGHTFAIR International, April 26-28, San Diego, CA**

**7.7 NEXT IIBC MEETING – January 2016**

For a complete list of industry events, please see: <http://www.caba.org/industry-events>.

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

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CABA IIBC meetings are open to CABA members and invited guests, and everyone is encouraged to participate. More info on the IIBC, past minutes, participants and terms of reference can be found at: <http://www.caba.org/iibc>.

Regards,

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