

Draft Meeting Minutes
CABA Intelligent & Integrated Buildings Council (IIBC) Meeting
Friday, January 22, 2016
1 PM – 2:30 PM (ET) via Webinar

IIBC Chair, Debra Gondeck-Becker (Honeywell International, Inc.)
IIBC Vice-Chair, Trevor Nightingale (National Research Council)
IIBC Vice-Chair, Bob Allan (The Siemon Company)
IIBC Vice-Chair, Robert Lane (Robert H. Lane & Associates Inc.)

Present:

Automation Standards Compliance Institute (ASCI), Andre Ristaino
Business Infrastructure Services, Thomas Irpan
CABA, Andrew Glennie
CABA, Ron Zimmer
CPEIA, Leo Valiquette
Eagle Technology, Inc., Harshad Shah
ELECTRO-FEDERATION Canada, Bill Bryans
exp US Services, Inc., Chris Larry
Frost & Sullivan, Konkana Khaund
Frost & Sullivan, Maurice Okawaki
Gregg D. Ander, LLC, Gregg Ander
Honeywell International, Inc., Debra Gondeck-Becker
Honeywell International, Inc., Seth Rourke
Ingersoll Rand/Trane, Daniel Poggi
Ingersoll Rand/Trane, Leon Hawkins
Jones Lang LaSalle (JLL), Jiri Skopek
Ken Wacks Associates, Ken Wacks
Machina Research, Andy Castonguay
MechoSystems, Inc., John Goldberg
MechoSystems, Inc., William Maiman
Mircom, Jason Falbo
National Research Council, Paige Leuschner
National Research Council, Trevor Nightingale
New Buildings Institute, Alexi Miller
Passive House Institute US (PHIUS), Terence Hill
PLC Multipoint, Inc., Joseph Briscoe
PLC Multipoint, Inc., Ronda McCullar
Public Works & Government Services Canada, Marek Dziedzic
Robert H. Lane & Associates Inc., Robert Lane
Siemens Industry, Inc., Pornsak Songkakul
Siemens Industry, Inc., Raphael Imhof
Sustainable Resources Management Inc., David Katz
The Siemon Company, Bob Allan
U.S. Green Building Council (USGBC), Gautami Palanki

1. Call to Order - Greg Walker (CABA)

Greg Walker (CABA) thanked everyone for attending, made a roll call and outlined the agenda.

2. Welcome and Introduction - Debra Gondeck-Becker (Honeywell International, Inc.)

Debra Gondeck-Becker (Honeywell International, Inc.) welcomed everyone and introduced: IIBC White Paper Sub-Committee Chair Ken Wacks (Ken Wacks Associates), William Maiman (MechoSystems, Inc.) and Alexi Miller (New Buildings Institute). Debra also outlined the role of the IIBC and alerted everyone that the meeting will be recorded and made available to the industry.

3. Administrative - Debra Gondeck-Becker (Honeywell International, Inc.)

3.1 Announcement of three (3) newly elected IIBC Vice-Chairs:

Debra Gondeck-Becker (Honeywell International, Inc.) announced newly elected IIBC Vice-Chairs: Bob Allan (The Siemon Company), Trevor Nightingale (National Research Council) and Robert Lane (Robert H. Lane & Associates Inc.). These were appointed by the CABA Board of Directors at their November 2015 meeting.

3.2 Motion to approve past IIBC Minutes: www.caba.org/iibc

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

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

4. Research Update - Greg Walker (CABA), Trevor Nightingale (National Research Council), Debra Gondeck-Becker (Honeywell International, Inc.)

4.1 “Intelligent Buildings and Cybersecurity” Landmark Research - 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. CABA members can still pre-buy the report for \$5K USD and receive the complete report and participation in the analyst final webinar. As a bonus, all the funders will receive a free 30 day subscription of their entire “Compass Intelligence M2M, IoT & Connected Devices” Research Library (about 50 reports). Their annual subscription is \$30,000 US and every Report will be available to be downloaded once the final project webinar is held. The full prospectus and additional information can be found at:

<http://www.caba.org/CABA/Research/Intelligent-Buildings-Cybersecurity.aspx>

Nineteen (19) CABA members are currently funding this project:



4.2 “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, the Project Steering Committee and the IIBC have agreed to release this research to the industry on a complimentary basis. The full research report and additional information can be found at:

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

Eighteen (18) CABA members and supporting organizations funded this project:



4.3 “Improving Organizational Productivity with Building Automation Systems” - Trevor Nightingale (National Research Council)

Trevor Nightingale (National Research Council) gave a brief overview of this research project. CABA, National Research Council and the IIBC are actively seeking additional funders for this project and a request for funders was made. An announcement was made that this project will be launched by CABA and the IIBC on April 1, 2016. The first Steering Committee meeting has been scheduled for May 2, 2016. The full prospectus and additional information can be found at: <http://www.caba.org/CABA/Research/NRC-Research-Project.aspx>

Five (5) CABA members are currently funding this project:



4.4 Motion to Select “Intelligent Buildings and the Impact of the Internet of Things” as the 2016 IIBC Landmark Research - Debra Gondeck-Becker (Honeywell International, Inc.)

Debra Gondeck-Becker (Honeywell International, Inc.) led the discussion on the next IIBC Landmark Research project that CABA should undertake in 2016. Debra announced that “Intelligent Buildings and the Impact of the Internet of Things” was selected by the IIBC Executive Committee after learning that it was the top choice in a CABA members’ survey.

Motion to approve “Intelligent Buildings and the Impact of the Internet of Things” as the next CABA IIBC Landmark Research project for 2016 was moved by Trevor Nightingale (National Research Council), the motion was seconded by Konkana Khaund (Frost & Sullivan). Motion passed.

5. 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 inform the industry. In order for the papers to be approved by the IIBC White Paper Sub-Committee (WPSC), they must contain significant technical material of relevance to IIBC 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 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 (1) or more of the following white paper working groups, please contact Greg Walker (CABA) at walker@caba.org.

5.1 “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.

5.2 “How can Printable Electronics enable existing BAS systems?” - Ken Wacks (Ken Wacks Associates)

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

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

5.3 “Project Haystack White Paper” - Ken Wacks (Ken Wacks Associates)

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

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

6. Panel Discussion on the recently completed “Zero Net Energy Building Controls” Research Project - Bob Allan (The Siemon Company)

Bob Allan (The Siemon Company) introduced the panelist: Debra Gondeck-Becker (Honeywell International, Inc.), William Maiman (MechoSystems, Inc.) and Alexi Miller (New Buildings Institute). Bob led an interactive discussion on the recently completed IIBC Multi-Client Boutique Research project “Zero Net Energy Building Controls: Characteristics, Energy Impacts and Lessons”. The full \$130,000 USD research project and additional information can be found at: <http://www.caba.org/CABA/Research/Zero-Net-Energy-Buildings.aspx>

7. New Business - Leo Valiquette (CPEIA), Debra Gondeck-Becker (Honeywell International, Inc.)

7.1 Canadian Printable Electronics Industry Association (CPEIA) National PE Program

On behalf of Leo Valiquette (CPEIA), Debra Gondeck-Becker (Honeywell International, Inc.) informed that the CPEIA National PE Program will take place April 19-20, Sheridan College, Toronto, ON, and that information on this event and other CPEIA events can be found at: <http://cpeia-acei.ca/>

- 8. Announcements** - Robert Lane (Robert H. Lane & Associates Inc.), Ron Zimmer (CABA), Debra Gondeck-Becker (Honeywell International, Inc.),

8.1 Past Event Overview: Building Innovation 2016 – The National Institute of Building Sciences (NIBS) Fourth Annual Conference & Expo, January 11-15, 2016, Washington, D.C

Debra Gondeck-Becker (Honeywell International, Inc.) announced this was a great event that took place January 11-15, 2016, Washington, D.C. More information on this event can be found at: <http://www.nibs.org/?page=conference2016>

8.2 Upcoming Event: AHR EXPO HVACR Trade Show, January 25-27, 2016, Orlando, FL

Ron Zimmer (CABA) mentioned that CABA will have an exhibit in the Building Automation Pavilion and will coordinate a special presentation to share research on the CABA “Zero Net Energy Building Controls: Characteristics, Energy Impacts and Lessons” research project. Ron announced this event will take place January 25-27, 2016, Orlando, FL. More information on this event can be found at: <http://www.ahrexpo.com/>

8.3 Upcoming Event: CABA Intelligent Buildings & Digital Home Forum, April 26-28, 2016, San Diego, CA

Ron Zimmer (CABA) announced this event will take place April 26-28, 2016, San Diego, CA. CABA would be delighted to have your organization consider moderating, speaking, sponsoring or registering at the forthcoming CABA Intelligent Buildings & Digital Home Forum. The event will in San Diego and at the same time as LIGHTFAIR International. For more details on this marketing and educational opportunity can be found at: <http://caba.org/forum.>

8.4 New CABA Branding

Debra Gondeck-Becker (Honeywell International, Inc.) announced and commented on the process of creating the new CABA brand.



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8.5 NEXT IIBC MEETING – Roundtable at CABA Forum, April 27, 2016

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

9. **Adjournment** (2:30 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,

Greg Walker
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