

CABA Intelligent & Integrated Buildings Council

Draft Meeting Minutes

Conference Call Meeting

Thursday, Nov. 5, 2009

11 AM – 12:30 PM ET

Attendees:

Roy Kolasa - Honeywell International (Chairman),
Ron Bernstein - LonMark International
Ludo Bertsch - Horizon Technologies
Thomas Boucino – CommScope, Inc.
Alex Detre – CABA
Marek Dziedzic – Public Works and Government Services Canada (PWGSC)
Anne Gailliot– Project FROG
Kent Hoskins - Robinson Solutions
Terry Hoffmann – Johnson Controls
Dave Hutchison - Texas Instruments
Joe Kassl - Panduit Corp.
David Katz – Sustainable Resources Management (BiQC)
J. Christopher Larry –Teng & Associates
Jim Sinopoli - Smart Buildings
Manny Soltero – Texas Instruments
Jiri Skopek, Jones Lang LaSalle (BiQC)
Randy Storch – Convia, A Herman Miller Company
Meli Stylianou – Natural Resources Canada (NRCAN)
Ken Wacks – Ken Wacks Associates
Ron Zimmer - CABA President

1. Welcome and Introductions (Roy Kolasa, Chairman)

Roy Kolasa welcomed everyone to the IIBC meeting and after introductions he indicated that Randy Storch had recently been appointed to the CABA Board of Directors. It was being recommended that Randy be appointed as the new IIBC Vice-Chair and also that he be appointed as CABA's second representative on the Green Buildings Technology Alliance (GBTA). Roy Kolasa indicated that CABA is allowed two reps and he is the only CABA rep on the GBTA at this point.

Motion: Moved by: Ron Bernstein, Seconded by Meli Stylianou

“That Randy Storch be appointed as CABA IIBC Vice-Chair and that he also is appointed as a CABA representative on the GBTA.”

2. Green and Sustainable Buildings Sub-Committee (Roy Kolasa)

- GTBA activity and actions (Roy Kolasa)

Joe Kassi was missed on the last meeting announcement and needs to be added to the Sub-Committee meeting addresses. Ron suggested that in future the IIBC should be cc as new members may want to participate in this Sub-Committee work.

Roy provided an update on the IB technology credit for the USGBC. Ron Bernstein advised that LonMark Int'l is pursuing CA state funding to prepare an educational program on IB solutions, implementation, and energy reductions. If funding is received, CABA may be asked to partner on this effort.

Ron agreed to notify the GBTA that Randy Storch is being recommended to be the second CABA representative.

Roy agreed to contact the GBTA to determine when the next meeting would be held.

- Commercial Building Initiative (Tim Kensok)

No Report

- SP 189.1 (Pornsak Songkakul, committee observer for CABA)

No Report

- [Zero Energy Commercial Buildings Consortium](#) - SBIC (Tom Lohner)

Report by Chris Larry: Have set up our nomination and CABA will be one of a number of organizations being added to the Consortium. The paperwork has been submitted and awaiting the Consortium kick-off. Merging the two groups was announced last week and Chris will take over from Tom Lohner, who will serve as a back up on the Net Zero Commercial Buildings Consortium efforts. Meli indicated that he was also involved in this effort representing [Solar Buildings Research Network](#). Ron will also check with Tim Kensok to see if the Commercial Buildings Initiative is also being rolled into this new SBIC and ASHRAE initiative.

Question from David Katz – Would Net Zero also include renewable energy initiatives? Per Chris, renewables will offset for net zero and controls will be a part of the solution and subset of the high-performance and energy efficient solutions. Effort is broader than the Lawrence Berkeley National Labs initiative.

3. Research Update – (Alex Detre)

- Market Sizing North America / Intelligent and Integrated Technologies

Nearing completion of this major research effort with the first draft due Nov 30, 2009. The final draft to is expected to be reviewed by the 24 participating organization reps on Dec 9 using Cisco Systems' telepresence and WebEx

technology, with the update coming from BSRIA in London. After the Final Report there will be a (3) month embargo period. There is opportunity to pre-order the Final Report at a discount of \$6K over the released report at \$7K for CABA members and for participants to attend the telepresence and receive the Executive Summary of the 2006 Market Sizing Report. A project overview has been attached as (Appendix A).

- Office of the Future Project

Research by New Buildings Institute - CABA is assisting the New Buildings Institute to show that “integrated systems” can provide a 25% to 50% energy saving solution for utilities, which in turn want to be able to incentify the “office sector”. There are eight (8) utilities that will undertake 2-3 pilot projects each, with the results compiled into a final research report. CABA will assist the utilities with their research projects by finding the appropriate technology and also providing CABA IIBC members with the eight key utility contacts that are in charge of the pilots. In some cases, the utilities are seeking buildings to undertake the pilots and CABA is also assisting in this regard. The utilities will eventually be seeking Public Utility Commission approvals to provide \$4 - \$5 per sq ft to office building owners and developers to place integrated systems into their buildings. Projects are moving forward and there is still an opportunity for CABA members to get involved in the existing projects. Contact Alex Detre or Don O’Connor at the CABA office for more details.

- Telepresence Research Project

This project involves Cisco Systems, TELUS and PWGSC and the project was delayed, but it is now being fast-tracked so the project will be in place before the 2010 Olympics in Vancouver. They are now looking at 5-6 units to be in place across Canada. Ken Wacks has been contracted to undertake the research work for this project.

- PWGSC Energy Pilot Project

Additionally, CABA is working with PWGSC on a pilot project with Cisco Systems, Robinson Solutions, GridPoint and SNC Lavelin. Marek, from PWGSC, provided an overview of the work that has taken place to date and the next steps. Summary: Working to integrate buildings using the Mediator; some connectivity issues due to security, BAS connected via Mediator and working on integration. Benefit to respond to demands and better control and management regardless of controls vintage (JCI, Delta in the buildings to determine level of difficulty in integration). The system will be coordinated and delivered by Robinson Solutions – 3 mediators installed now. All participants, including CABA, will have an opportunity to outline the project and benefits to government and industry at a Real Property Conference being held in Gatineau, Quebec on Nov. 26, 2009. Also involved will be GridPoint’s maintenance provider working on the integration and DR solution.

Per David Katz – Both groups may be interested in using the BiQ Tool and possibly the LCC and using stimulus funds.

- Future IIBC Research

CABA is now looking to the next major research project for IIBC to support and is seeking recommendations (i.e., IB Roadmap, Smart Grid, etc.). IIBC members are asked to submit ideas and projects for potential topics to Alex Detre, CABA Research Director, or Ron Zimmer. David Katz indicates that he is also looking for partners and funding to research new WSHP solutions.

4. Building Intelligence Quotient (BiQ) Tool (J. Christopher Larry/David Katz)

Chris updated the IIBC on the BiQ (Building Intelligence Quotient survey tool) There was a BiQ Advisory Board meeting last week with minutes available via CABA. Over 200 buildings completed with Honeywell as an initial sponsor and they are looking for others.

Chris – Advised that there are plans to create a BiQ Technical Sub-Committee to continue developing the BIQ Tool; The BiQ Advisory Board members (open to the IIBC) may serve on the BiQ Technical Sub-Committee to review and roadmap future enhancements and additions to the BiQ Tool.

Chris – The BiQ Advisory Board is planning to award a BiQ award to the highest rated buildings and present them at ASHRAE/AHR Expo (Jan, 2010). He will check into the opportunity of holding the BiQ Awards within the ASHRAE awards program.

Per David Katz - There was a successful webinar archived on the BiQ Tool from a session hosted by the ASEP. The BiQ Tool has been enhanced based on suggestions from Honeywell for download, reporting, and links to the CABA Research Library. Honeywell has renewed a license to undertake more BiQ Tool usages with their customers. They are also looking to add a new Honeywell Building to the BIQ list. There may also be an opportunity to add the Empire State Building as a user of the BiQ Tool, as Jones Lang LaSalle is involved with the building retrofit.

5. IB Education/Training Update (Jim Sinopoli)

Focus is to seek related IB training and education available in the industry and include those links on a consolidated CABA web page. This effort is now taking place to collect the links from such organizations as: BOMA, ASHRAE, CSI, Lighting Control Assoc, LonMark Association, BACnet International, InfoComm International, etc. All of these organizations were involved in the initial meetings and efforts. CABA had formerly had input from BICSI, and they may become involved again.

- Ques: Can IIBC members send links to IB educational courses offered through post-secondary educational institutions such as Community Colleges? – Yes, Please forward for review and inclusion.

Jim indicated that this effort started as an IIBC Task Force to define a certification program for IB integrators and it may come full circle to include some form of certification in the future.

6. Smart Grid - Ron Zimmer

- a) There is a great deal of activity on Smart Grid by governments and industry in many countries in the world. Home area networks and building area networks will be included in the US Smart Grid efforts that DOE and the Commerce Dept have been promoting through ARRA funding and other initiatives. They have commissioned a Smart Grid Interoperability Roadmap project, which has been handled by EPRI. Per Ken Wacks.....the last chance to make comments will be Nov. 9, 2009. The next steps are already underway with a high level Smart Grid Advisory Board being formed by NIST and action plans to establish and enhance the Smart Grid program. EnerNex has been contracted for Phase II and there is more information available at: www.NIST.gov/smartgrid.
- b) The NIST top-level report has been made available for public comment (90 day period) that closed on Monday, Nov 9th. Other reports and opportunities exist to participate on the ad-hoc committees. Sub-committees are Ad-Hoc and informal to discuss technologies. CABA will serve as a conduit to inform members on the activities and opportunities to participate.

For example, the draft report, entitled *NIST Framework and Roadmap for Smart Grid Interoperability Standards, Release 1.0*, incorporates input from more than 1,500 industries, government and other stakeholders. It includes:

- a basic set of standards for interoperability and security, with around 80 specific standards and specifications;
- 14 'priority action plans' that describe what is being done immediately to fill important gaps where additional or revised standards are needed; and
- a summary of a separate NIST cyber security strategy.

The draft can be viewed at:

http://www.nist.gov/public_affairs/releases/smartgrid_interoperability.pdf

7. IIBC Draft Terms of Reference (Appendix B)

Ron indicated that each primary CABA Council has established "Terms of Reference" and these are posted on the CABA web site and circulated for annual review. David Katz indicated that there should be some reference to volunteers that provide time and effort to the CABA IIBC. There will be an amendment and then the IIBC Terms of Reference can be reviewed again at the next IIBC meeting.

8. Next IIBC Meeting: This will be a planned "face2face" meeting during the ASHRAE and AHR Expo in Orlando, FL; Monday, Jan 25, 2010 from 4 - 6 PM. CABA is seeking a sponsor for an IIBC reception to follow the IIBC meeting.

9. New Business

David Katz indicated that he is planning to be at ASHRAE/AHR Expo and he volunteered to attend ASHRAE Committee meetings and collect Intelligent Building and general automation updates for discussion during the IIBC meeting. It was agreed that the IIBC meeting agenda will include an item for this information to ensure CABA's IIBC is engaged and aware of the ASHRAE programs and initiatives.

10. Meeting adjourned at 12:30 PM ET

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Appendix A

"North American Market Sizing Survey - Intelligent and Integrated Technology"

CABA is pleased to profile the 25 organizations involved in this important research project, including DOE/PNNL, NRCAN, Consolidated Edison Co. of NY, OPA and EPRI:

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|---|---|
| 1. Consolidated Edison Co. of NY | 14. Distech Controls |
| 2. Belimo Air Controls Inc. | 15. Ortronics/Legrand |
| 3. Delta Controls | 16. Cisco Systems |
| 4. Electric Power Research Institute (EPRI) | 17. Ontario Power Authority (OPA) |
| 5. Honeywell International/Tridium, Inc. | 18. Optimum Energy, LLC |
| 6. IBM | 19. GainSpan Corporation |
| 7. Johnson Controls | 20. CommScope, Inc. |
| 8. Natural Resources Canada (NRCAN) | 21. Unitech Electronics (Taiwan) |
| 9. Philips Lighting | 22. Leviton Manufacturing Co, Inc. |
| 10. Robinson Solutions | 23. UTC/Carrier/Automated Logic Corporation |
| 11. Siemens Building Technologies | 24. Dept. of Energy/Pacific Northwest National Labs |
| 12. Square D/TAC/Schneider-Electric | 25. Government Services Administration (GSA) |
| 13. Trane/Ingersoll Rand | |



You may view the presentation that BSRIA provided at the June 3, 2009 meeting:

<http://www.caba.org/Content/Documents/Document.aspx?DocId=53477>. The CABA market study will be a good way to assist everyone with future marketing/sales strategies and product/service R&D. This research will also help illuminate this important sector, especially as more effort takes place on high performance buildings, energy management and Smart Grids. Based on the rapidly changing marketplace, this research will be very valuable as you develop and validate existing corporate strategies.

The current participation benefits include:

- Level 1:** CABA member participation fee: \$14K US, Non-CABA member participation fee: \$18K US
 - Appoint a primary and secondary person to the Steering Committee with voting privileges
 - Opportunity to finalize the research methodology and deliverables as it relates to your organization and industry sector
 - Five (5) complimentary participants to a project wrap-up session hosted by a nearby Cisco Systems' TelePresence office
 - Receive a complimentary Final Report of the IT-Convergence study from 2005 in electronic format
 - New! Special discount on the purchase of BSRIA's Global Controls Study - to be completed June/09
 - Receive five (5) complimentary printed final reports and an electronic version

New Bonus -- Level 1 participants will receive the complete "Intelligent Controls in Buildings- Environmental Control Systems – The North American Market 2005–2010" research report.

- Level 2:** CABA member participation fee: \$6K US, Non-CABA member participation fee: \$9K US
 - Valued input regarding suggested market segmentation direction in order to influence the Steering Committee
 - Two (2) complimentary participants to a project wrap-up session hosted by a nearby Cisco Systems' TelePresence office
 - Receive a complimentary Executive Summary of the IT-Convergence study from 2005 in electronic format
 - Receive two (2) complimentary printed final reports and an electronic version

Note: The project is expected to be completed in Nov/2009 and after the three (3) month embargo period, the final report will be available for the price of \$7,000 for CABA members and \$9,000 for non-CABA members for the next twelve (12) months.

Please contact Don O'Connor, CABA Business Development Manager or Ken Gallinger, CABA Marketing Director at 888.798.CABA (2222) or 613.686.1814 if you wish to discuss this opportunity further.

Appendix B

CABA Intelligent & Integrated Buildings Council (IIBC) **Terms of Reference**

1. The CABA IIBC works to strengthen the large building automation industry through activities, research and projects that allow CABA to achieve its vision, which is, “advancing technology and integrated systems in homes and buildings, creating opportunities for our members’ business activities and serving as a preferred global source of information, knowledge and networking for key stakeholders.”
2. An IIBC Chairman and Vice-Chairman report to the CABA Board of Directors and will be appointed for a term of two (2) years, which can be renewed.
3. The Intelligent & Integrated Buildings Council will more specifically review opportunities, strategize, take action and monitor initiatives that relate to integrated systems and large building automation.
4. The Intelligent & Integrated Buildings Council members in reviewing issues and opportunities will provide advice, direction and recommendations to the CABA Board of Directors and Secretariat.
5. Specific Task Forces, Sub-Committees and working can be established to work on specific activities related to the IIBC.
6. The IIBC can appoint IIBC member reps to various industry stakeholder groups to represent CABA’s interest.
7. Intelligent & Integrated Buildings Council members must be active in the Commercial, MDU and industrial sectors and they must also be with organizations that are CABA members in good standing.
8. The Intelligent & Integrated Buildings Council should meet a minimum of four (4) times annually, with at least one (1) face-to-face meeting.
9. The Intelligent & Integrated Buildings Council will receive administrative support from the CABA Secretariat.
10. CABA members that serve on the IIBC are considered volunteers and should receive recognition for their efforts. If there is a budget and with proper approvals IIBC members may be compensated for some of their work on specific IIBC projects.

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