

In This Issue...

Oregon DEQ Recommends ICFs and SIPs
Project Focus: Frieze Harley Davidson
ICFA Re-Establishes Marketing Committee
ICC and QAI Team Up
Technical Developments
ICFA Excellence Awards

ICFA DIALOGUE

Fall 2010

ACTING ON YOUR BEHALF

The ICFA recently obtained a seat on the Ready Mixed Concrete Association of Ontario Technical Committee. The ICFA sought this position in an effort to take a more active role in technical developments regarding ICFs. The new position also means that the ICFA is now better equipped to handle technical inquiries and supporting educational materials. Tyler Merchant will be representing the ICFA on the committee.

The ICFA has accepted an invitation to serve on an Honorary Editorial Advisory Board for AWCI's *Walls and Ceilings* publication. The ICFA will be submitting yearly articles on the ICF industry, and Executive Director Betsy Steiner will serve as a judge for the magazine's Annual Excellence Awards.

The ICFA, through its affiliation with the EPS Molders Association, is an active participant in a number of industry organizations, including ASHRAE, ASTM, ACPA, and the SBIC.

www.linkedin.com
www.facebook.com
www.twitter.com

Oregon DEQ Recommends ICFs and SIPs

Insulating concrete forms and structural insulated panels were found by the Oregon Department of Environmental Quality to be among the best building practices to reduce greenhouse gasses and waste generation from residential construction. In conjunction with the Oregon Home Builders Association, Quantis and Earth Advantage Institute, the Oregon DEQ recently completed the second phase of a new report, titled "A Life Cycle Assessment Based Approach to Prioritizing Methods of Preventing Waste from Residential Building". The report rates best ways to reduce greenhouse gas and waste generation from the residential construction sector. The goal of the project was to identify and characterize building practices that are likely to prevent waste and to determine which of those practices provide the greatest environmental benefit.

Of the 25 practices evaluated, ICFs and SIPs were ranked third and sixth for their energy efficiency benefits. Building multi-family housing and building a smaller home claimed the top rated spots. The fifth spot went to "design using salvaged materials". Strawbale construction had a slight advantage over salvaged materials and came in fourth.

The study examined energy use and waste from all stages of a home's life; construction, use and occupancy, maintenance and remodeling, demolition, and end-of-life disposal. Use and occupancy contributed in excess of 80% of the total climate change impact over the projected 70 year life of the home. The materials production stages (including original and replacement materials) contributed 12% overall, followed by transportation of materials and workers to and from the job site at 4%.

The best scoring practices were dominated by those that affect a home's energy use. These included the use of alternative wall materials such as ICFs, SIPs, and strawbale. The report stated that many of the limitations of wood-frame construction are overcome by using these alternative systems. Additionally, the report found that because of the radical reduction or elimination of wood framing and the associated thermal bridges, the overall performance of ICFs exceeded the base case by a considerable margin.

According to the Oregon DEQ, unless one wants multi-family housing, a smaller home, or walls made of straw, ICF's are one of the best ways to go. Contact the ICFA for more information on this report.



888-864-4232
www.forms.org
1298 Cronson Blvd, Suite 201
Crofton, MD 21114



Frieze Harley Davidson



- **Project type:** Commercial retail
- **Project specs:** 24,800 sq. ft., 100% ICF exterior walls, 750 sq. ft. of interior ICF walls
- **Time frame:** Constructed in 11 months
- **Awards:** 2008 ICF Builder Awards, First Place, Heavy Commercial category
- **Certifications:** LEED Gold

Constructed between 2006 and 2007, the Frieze Harley Davidson building is a marvel of function and aesthetic. Constructed primarily from ICFs, the building's walls range from 17 to 33 feet high. The flexibility of ICFs allowed architects to combine high walls with unique angles, creating the extraordinary design of the building. The most notable feature is the 33 foot prow wall at one end that extends upwards at a 14-degree cantilever. The effect was completed with the wall angled horizontally up to meet the prow of the building. The result is a visually appealing design that is not soon forgotten.

The sustainability of Frieze Harley-Davidson comes not only from the solid envelope provided by ICFs, but also a number of systems designed to reduce energy consumption. Wind turbines generate much of the building's electricity. The flooring is bamboo and recycled carpet, and the furnace burns used motor oil, meaning this site doubles as a drop-off for the community's used oil. The roof contains over 40 Solatubes, and a computer controlled lighting system ensures a minimum of power waste.

2010/11 UPCOMING EVENTS

Green California Schools Summit

December 8-10, 2010

Pasadena, CA

www.green-technology.org/gcschools/index.html

International Builder's Show 2011

January 12-15, 2011

Orlando, FL

www.buildersshow.com

World of Concrete 2011

January 18-21, 2011

Las Vegas, NV

www.worldofconcrete.com

EPS Expo 2011

March 9-11, 2011

Baltimore, MD

www.epsmolders.org/6expo.html

NAHB National Green Building Conference

May 1-3, 2011

Salt Lake City, UT

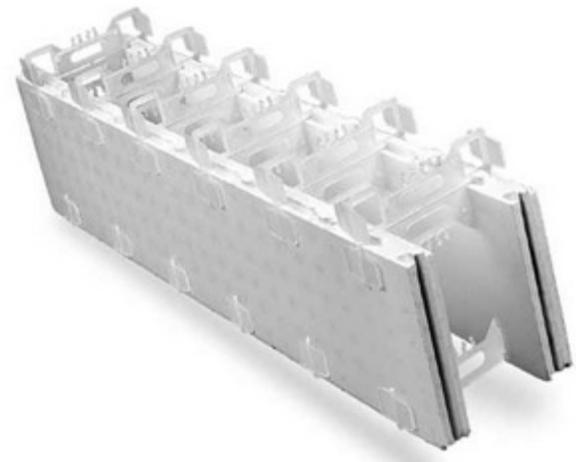
www.nahb.org

Go Green Expo

April 15-17, 2011

Los Angeles, CA

www.gogreenexpo.com



ICFA Re-Establishes Marketing Committee

The ICFA Marketing Committee has been re-established as a permanent resource for the ICFA. The committee will advise and assist with the planned advertising and marketing initiative that the ICFA will be launching in 2011. The committee will also assist in creating broad-based programs and marketing tools that support the ICFA strategic plan relative to educational outreach and public relations.

The members that will be serving on the committee are as follows:

- Todd Blyth, NUDURA Corporation
- Troy Gibson, Reward Wall Systems
- John Riddle, Greenblock Insulated Concrete Forms
- Luis Prior, ARXX ICF
- Carrie Snodgrass, BuildBlock Building Systems
- Douglas Bennion, Quad-Lock Building Systems
- Gary Brown, Amvic Building System

The Marketing Committee, in conjunction with ICFA staff, will be working on a number of projects. The selection of a new ICFA logo has already been completed, and the committee will soon begin drafting a market survey, intended to maximize the effectiveness of the ICFA's Long-Term Marketing Plan, as well as the development of new recruitment materials, and an inventory of available ICFA literature resources.

ICC Evaluation Service and QAI Laboratories Align Resources

ICC Evaluation Service, LLC and QAI Laboratories announced in October that they have developed a working relationship designed to streamline the process for building manufacturers to have their products tested and evaluated. The result is an expedited ICC-ES Evaluation Report or an ICC-ES Plumbing, Mechanical and Fuel Gas (PMG) Listing.

Manufacturers can now work with ICC-ES and QAI to bring products to market faster and at less cost under the new partnership. Products covered include, but are not limited to, wall systems and coverings, roofing systems, water-resistant and air barriers, insulation, and innovative building products.

Manufacturers normally submit data from independent labs directly to ICC-ES to obtain an Evaluation Report, but often due to various factors there can be delays. The new program will establish close communications between ICC-ES and QAI, allowing them to work together from the beginning of testing and coordinate their efforts. Should problems arise during inspections and testing, they are jointly addressed so that agreed-upon criteria are met.

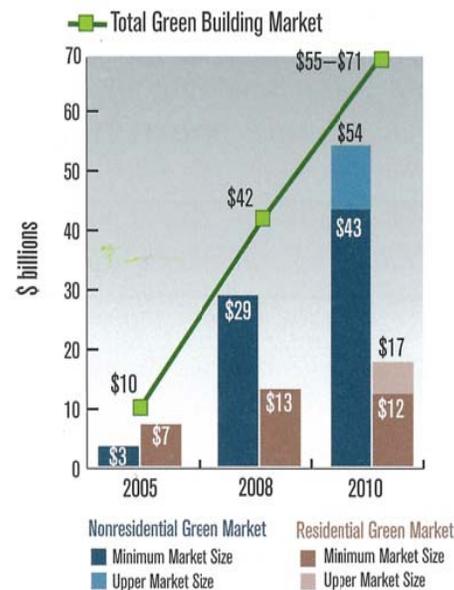
Additional information can be found at www.icc-es.org or www.qai.org.

Green Building Market Performs Better Than Expected

Despite the state of the economy, which has affected so many in the construction industry, recent data shows that the green building market exceeded performance expectations in 2010, and has been for the last 5 years. The U.S. market for green building jumped from \$10 billion in 2005 to \$42 billion in 2008. In 2010, overall new green building—commercial and residential—is expected to rise to between \$55 billion and \$71 billion.

Green Building Market Size

Total New Green Building Market (2005–2010)



The largest growth has been in the non-commercial market, with projections showing a share of 28%-35% of the overall green building market. This is a 50% increase over the share from 2008, equaling a \$43-\$54 billion opportunity. This trend is expected to continue over the next 5 years, with estimates showing the market share of

nonresidential green construction at 40%-48%.

The industry sectors that have most embraced green building initiatives are education, health care, and office buildings. This is no surprise considering that these sectors comprise the largest portion of building overall, but it bodes well for green construction considering that these sectors, particularly health care and education, are predicted to increase construction over the next 5 years.

Green renovation and retrofitting projects also saw an increase. While the market share of these projects is much smaller, it is expected to triple within 5 years, so that 75% of renovation and retrofitting will include energy-efficient measures by 2015.

This information was provided by the McGraw Hill Construction Green Outlook 2011 Report, which can be obtained from their website at www.construction.com under "Market Research".

TECHNICAL DEVELOPMENTS

The Canadian standard **ULC S717.1**, based on the ASTM E2634—08 Standard Specification for Flat Wall Insulating Concrete Form Systems, has gone to the balloting stage and is expected to be passed this November. If it should not pass, the time frame for the standard will be extended by 6 months.

Research on the thermal mass performance of ICF walls at the National Research Council, sponsored by Natural Resources Canada and Canada Mortgage and Housing Corporation has been completed and the final report should be released in January 2011. ICF manufacturers will conduct a meeting prior to the release of the test results.

The Executive Committee of the **CCBFC has assessed the request to add energy efficiency as an objective of the National Energy Code for Buildings** against the CCBFC's Approved Protocol for Addressing New Objectives in Model National Codes. It has determined that a building regulatory response related to energy efficiency is justifiable to effectively address an overall policy goal related to the environment with a series of possible policy goals related to resource conservation, infrastructure capacity, energy security, and a policy goal of harmonization.

ICFA EXCELLENCE AWARDS

The Insulating Concrete Form Association is now accepting entry applications for the **2011 ICFA Excellence Awards** program. The award is open to all members of the ICFA that wish to submit an ICF project for consideration.

The ICFA staff has made some changes to the awards this year, most notably the elimination of the application fee. The International category has also been eliminated. International submissions will be considered along with domestic contenders. The remaining award categories have been consolidated. Commercial projects will no longer be divided in to "Large" and "Small", and will instead fall under one "Commercial" category. The same applies for residential submissions. The award submission application has been streamlined, to facilitate an easier application process

The ICFA Excellence Awards application can be found on the ICFA website at www.forms.org under News and Events. All submissions are due by January 31st, 2011. Winners will be announced in early March.

NEW MEMBERS OF THE ICFA

Premier Construction Group
www.premiericf.com
Wisconsin

Building a Brighter Future, LLC
www.bbfgreenbuilding.com
Delaware

Five Star Builders
www.fivestarblders.com
Texas

Green Ridge Builders, LLC
www.greenridgebuildersllc.com
Ohio

Kader Hill, Inc.
www.kaderhill.com
Ontario

Swaco Construction Unlimited
Trinidad

ICFA STAFF

Betsy Steiner
Executive Director
emsteiner@epscentral.org

Tyler Merchant
Member Services Associate
tmerchant@epscentral.org

Donna Stearns
Office Manager
dstearns@epscentral.org

General Information
(888) 864-4232
info@forms.org