

# Metal Building Manufacturers Association



## MBMA MISSION

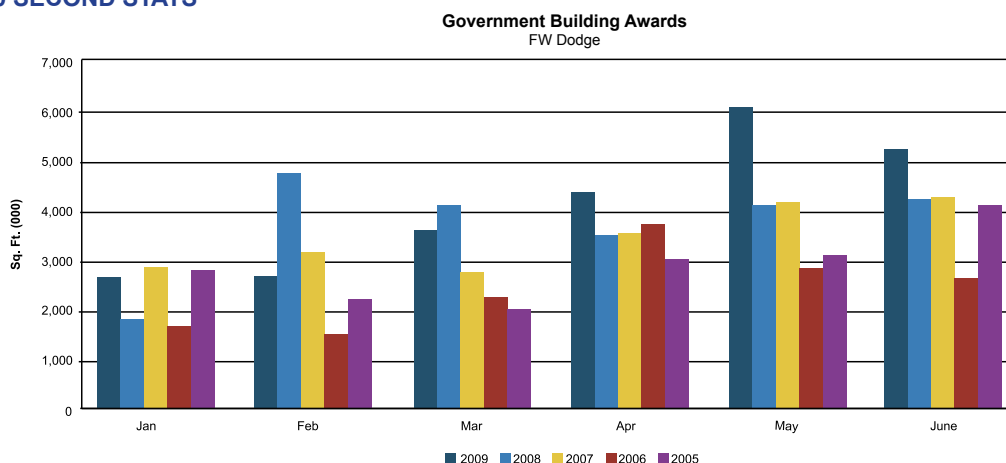
The MBMA mission is to enhance the collective interests of the Metal Building Systems industry.



## MBMA PLEDGE

The MBMA will represent and promote the common interests of the member companies and wisely invest their resources to benefit the group.

## 30 SECOND STATS



Although the overall non-residential construction market continues to slump, the government sector offers very strong and growing opportunities as tracked by F.W. Dodge.



## CHAIRMAN'S COMMENT FROM PHIL RAIMONDO

This year, 2009, has been a challenging one for our markets and industry. As difficult decisions and sacrifices are made at all companies, it is encouraging to see the continuing support for MBMA activities. Our focus on technical research projects, code and standards development, and quality systems will position member companies to grow market share, compared to other types of building materials, when the economy and our markets recover.

With that in mind, it is encouraging to see our membership increase, even in this difficult economy. This year we've added four building system manufacturers and five associate members. Welcome to all!

I must also acknowledge and compliment MBMA's Accreditation Committee. I thank them for the time and energy and extra efforts they gave in order to work with IAS to get the IAS AC472 program rolling. Nine people from MBMA member firms pulled together for the common good and worked tirelessly to make this program happen. In the process, they helped change our industry for the better.



## TECHNICAL UPDATES

**The Technical Committee held their meeting July 22-24, 2009 in Cleveland. Highlights included:**

- Educational seminar presentations on: "What's new in the 2007 AISI Specification" by Dr. Ben Schafer and "New AISI Anchorage Design Guide" by Dr. Tom Murray.

- New Chairman, Jerry Hatch of NCI, took the reins from Scott Russell of Nucor Building Systems, who had served with distinction for 4-1/2 years.
- Review and discussion of code activities, including the code proposals submitted by MBMA to the International Building Code. This includes a proposal to clarify the head of wall fire test requirement for interior partitions beneath noncombustible metal roofs that aren't fire rated.
- An update on eight research projects in progress. Some of these include:
  - Seismic research at the University of California, San Diego at their Shake Table Facility to conduct full-scale testing.
  - Flange brace research at Georgia Tech to determine proper strength and stiffness requirements needed to adequately brace the primary frame flanges.
  - Composite roof uplift at the National Research Center in Ottawa, Canada to correlate the air permeability of roof panels with the load sharing between the panels and substrate.
  - Lateral drift measurement at Virginia Tech to evaluate the conservatism in estimating drift due to wind.
- MBMA, in cooperation with the Door & Access Systems Manufacturing Association, International (DASMA), will conduct two tests of 10'x10' doors with wind locks at DBCI in Douglasville, GA in August. In part, the test program will measure forces imposed on the door jamb to evaluate current design procedures.



### Committee on Fire Protection and Insurance Related Matters

The Fire Resistance Design Guide Task Group has held a series of meetings on the development of a Fire Resistance Design Guide. MBMA Fire Protection Counsel, Dr. Nestor Iwankiw of Hughes Associates, is working with the task group to develop the guide.

The Wall Assemblies Task Group is developing a one-hour fire rated wall assembly that will

also meet the growing stringency of the energy code. In May, representatives from the task group constructed wall mock-ups at Butler Research Center and will determine a suitable wall assembly that would require one-hour fire ratings. The group is finalizing the wall assembly to conduct a fire test at Underwriters Laboratories (UL). The goal is to achieve a one-hour fire rated UL assembly.

### Energy Committee

The Department of Energy's mandate that the energy codes and standards achieve a 30% increase in stringency over the ASHRAE 2004 standard has caused a flurry of activities within the energy codes and standard organizations. MBMA has been involved in an estimated 700 hours of meetings, teleconferences, proposals and comment development. Most recently, the Association submitted comments and proposals in the public reviews of ASHRAE 90.1-2007 Addendum "bb" as it pertains to metal building roofs and walls, Addendum "bf" on continuous air barriers, and Addendum "f" on prescriptive cool roofs.

The Heschong-Mahone Group, which is the researcher on the Whole Building Simulation study, is making excellent progress on a modeling project that compares a metal building system and a tilt wall building. Completion of the study is planned by the end of September.

### Sustainability Committee

MBMA committee members met with representatives from the Athena Institute, Morrison Hershfield, and the University of Minnesota in June to discuss life cycle assessment (LCA) and to determine how to get metal building systems into the Athena® Environmental Impact Estimator and EcoCalculator for Buildings. This is an important project since most of the green building certification programs are moving toward an LCA option.

MBMA's ASHRAE 189.1P Task Group submitted comments and proposals to the Third Public Review on the Proposed Standard 189.1P, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings. The purpose of this standard is to provide minimum requirements for the design of high-performance, green buildings to: (a) Balance environmental responsibility, resource efficiency, occupant comfort and well being, and community sensitivity, and (b) Support the goal of development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

The International Code Council (ICC) is working on a Green Building Code. The Sustainable Building Technology Committee (SBTC) is developing the code and MBMA is monitoring its development.

### TECHNICAL PUBLICATIONS

**Tapered Member Design Guide:** This publication will present a comprehensive approach to the design of frames composed of web-tapered members within the context of the 2005 AISC Specification for Structural Steel Buildings. The guide is complete and will be available from AISC later this year as Design Guide No. 25, Frame Design Using Web-Tapered Members.

**Energy Design Guide:** The guide will provide information on energy efficient technologies, programs and codes and offer ways to increase the energy efficiency of metal building systems. It is 90% complete with a publication date expected for later this year.

**Fire Resistance Design Guide:** This on-line publication will be directed to builders and contractors, specifiers, building officials, fire marshals, and fire protection engineers. It is currently 65% complete with publication anticipated by the end of the year.

**Foundation Design Guide:** This publication, sponsored by MBMA and authored by Alexander Newman, will explain the basics of foundation design, foundations for metal building systems, design of interior column foundations, continuous wall footings and moment resisting foundations. Six of nine chapters are complete and a series of outside reviewers are working with MBMA's steering group and the author.

### MARK YOUR CALENDAR



### Don't Miss MBMA's Annual Meeting

December 8-9, 2009

Renaissance Concourse Hotel  
Atlanta, Georgia

December 8

Executive Committee  
Reception/Dinner (All members)

December 9

Board of Directors and  
Association Meeting (All Members)

December 10

Mill Relations Meeting (Board of Directors)

## HIGHLIGHTS OF SPRING MEETING

Over 60 representatives from member companies attended the MBMA Spring Meeting, May 3-5 in Sarasota, FL. Information was offered on the industry and market and the AC472 Accreditation Program. Project updates were provided regarding the activities of the Technical, Energy, Sustainability, and Fire Protection/Insurance Committees. Receptions, dinners and a golf tournament allowed time for building systems and associate members to exchange ideas.

## IAS ACCREDITATION NEWS

Congratulations to Behlen Building Systems, Nucor Building Systems-Utah and Pinnacle Structures, Inc., for achieving AC472 Accreditation.

The Accreditation Committee held teleconferences this spring with the quality assurance, manufacturing, and engineering personnel within member firms to review the assessment checklist for Part A, Part B and Part C. The session also offered a discussion on the answers drafted for a Frequently Asked Questions document.

The Accreditation Committee will meet with IAS on October 8, 2009 in Whittier, California.

## NEW TO THE FAMILY

On behalf of the MBMA membership, we extend a warm welcome to the following new members. Please contact them and introduce your firm to theirs:

### **Building System Members**

DEAN STEEL BUILDINGS, INC. (Fort Myers, FL)  
Nanette Dean, President  
239-334-1051 or [nandean@deansteelbuildings.com](mailto:nandean@deansteelbuildings.com)  
[www.deansteelbuildings.com](http://www.deansteelbuildings.com)

ELITE STRUCTURES, INC. (Adel, GA)  
Michael W. Gibbs, President  
229-896-7569 or [spermenter@elite-structures.com](mailto:spermenter@elite-structures.com)  
[www.elitestructures.com](http://www.elitestructures.com)

RED DOT BUILDINGS (Athens, TX)  
Ted Bush, CEO and President  
903-675-9181 or [ted.bush@reddotbuildings.com](mailto:ted.bush@reddotbuildings.com)  
[www.reddotbuildings.com](http://www.reddotbuildings.com)

TRIDENT BUILDING SYSTEMS, INC. (Sarasota, FL)  
Carl Petrat, CEO  
941-755-7073 or [jbabich@tridentbuildingsystems.com](mailto:jbabich@tridentbuildingsystems.com)  
[www.tridentbuildingsystems.com](http://www.tridentbuildingsystems.com)

### **Associate Members**

APPLIED TESTING & GEOSCIENCES, LLC (Bridgeport, PA)  
Independent Testing, Inspection & Certification Services  
Craig J. Joss, PE, CWI, Technical Manager  
610-313-3227 or [cjoss@appliedtesting.com](mailto:cjoss@appliedtesting.com)  
[www.appliedtesting.com](http://www.appliedtesting.com)

ARCHITECTURAL TESTING (York, PA)  
Independent Testing, Inspection & Certification Services  
David Moyer, Vice President  
717-764-7700 or [dgmoyer@archtest.com](mailto:dgmoyer@archtest.com)  
[www.archtest.com](http://www.archtest.com)

FARABAUGH ENGINEERING & TESTING, INC.  
(McKeesport, PA)  
Independent Testing, Inspection & Certification Services  
Daniel G. Farabaugh, President  
412-751-4001  
[www.fetlabs.com](http://www.fetlabs.com)

HIGH-R, INC. (Ames, IA)  
Insulation/Ceilings  
Tanner Kinzler, Vice President  
888-292-2382 or [tanner@insulation.net](mailto:tanner@insulation.net)  
[www.high-r.com](http://www.high-r.com)

PROFESSIONAL SERVICE INDUSTRIES (Eugene, OR)  
Independent Testing, Inspection & Certification Services  
Randy Webb, Project Manager  
541-484-9212 or [randy.webb@psiusa.com](mailto:randy.webb@psiusa.com)  
[www.psiusa.com](http://www.psiusa.com)

## IN THE NEWS

We have secured approval for member firms to post these articles to their web sites. Contact Chuck Praeger for a web-suitable PDF of each article.


- *Metal's Edge: The Bottom Line* is a feature segment that ran in Building Operating Management magazine in May, 2009. The MBMA-initiated section provides useful information and educates your audiences regarding metal building systems.
- *Weld Done: Metal Building Systems Require Special Welding for Seismic Design*, by W. Lee Shoemaker, P.E., Ph.D. appeared in the August issue of MetalMag.
- Metal Construction News is running *MBMA: Designed and Built for Technical Leadership* in the August issue. This is a special supplement on MBMA and its history, highlights, and members.

## ASSOCIATE MEMBER PRODUCT UPDATES

ATAS International, Inc. ([www.atas.com](http://www.atas.com)) developed new products sheets that describe ATA-Solar, their standing seam metal roof that generates clean, renewable electric energy and InSpire wall system which utilizes metal wall cladding as a solar collector to heat outside fresh air. For copies, contact Dick Bus at 800.468.1441.

Architectural Testing has a Roof Impact Certification Program for testing performed to FM4473 and UL 2218. For additional information go to: [www.architecturaltesting.com/certification/Roof\\_Impact.aspx](http://www.architecturaltesting.com/certification/Roof_Impact.aspx). For further detail, contact Daniel Wise at 717.767.3799 or [dwise@archtest.com](mailto:dwise@archtest.com).

Atlas Bolt & Screw has developed a new Esthetically Energy Efficient fastener, the ERV,. Used with R-19 wall insulation, the ERV increases R value by using a controlled stopping point and will not dimple the panel. Request literature from Becki Antonides at [bantonides@atlasfasteners.com](mailto:bantonides@atlasfasteners.com) or learn more at [www.atlasfasteners.com](http://www.atlasfasteners.com).



Bay Insulation Systems offers Baylight™ Prismatic Skylights. These provide higher visible light transmittance and optimal light distribution, and produce daylighting which reduces up to 75% of daytime electric lighting. Baylight reduces energy consumption resulting in lower utility bills and a cleaner environment. For more information visit [www.bayinsulationsystems.com](http://www.bayinsulationsystems.com).

High-R® Insulation Systems at [www.high-r.com](http://www.high-r.com) has launched a new website through the Kinzler Companies. The firm offers high performance rigid panel insulation systems for new or retrofit metal buildings that provide a finished ceiling / wall and R-values of up to R-45.

Steelscape is launching Steelscape® Prints, high quality coatings applied over Steelscape's ZINCALUME® and TruZinc® substrates. The pebble print pattern comes in a variety of colors that mimic alternative roofing solutions but with the added benefits available only with metal roofing. Learn more at 888.285.7717 or [www.steelscape.com](http://www.steelscape.com).

Triangle Fastener Corporation now offers VRT™ Technology (Vibration Resistant Thread), a patent pending screw thread designed to increase back-out torque and reduce the potential for failed joints. Information at 800.486.1832 or [www.trianglefastener.com](http://www.trianglefastener.com).

PPG Industries can help metal roof manufacturers expedite registration of their cool roof coating colors with the Cool Roof Rating Council (CRRC) and the ENERGY STAR® Cool Roof program, enabling them to more quickly earn tax credits and meet new green building codes. PPG has 154 colors registered with CRRC. To learn more, call 800.258.6398 or visit [www.ppgideascales.com](http://www.ppgideascales.com).

#### **WHAT WILL YOU SAY?**

If you have news for future issues of Impact, send your submissions to Chuck Praeger at [mbma@mbma.com](mailto:mbma@mbma.com). Associate members are invited to submit new product information.