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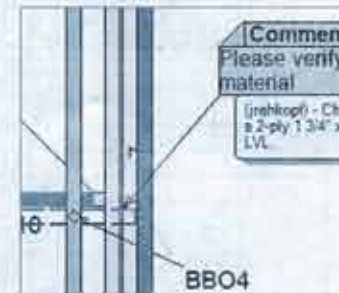
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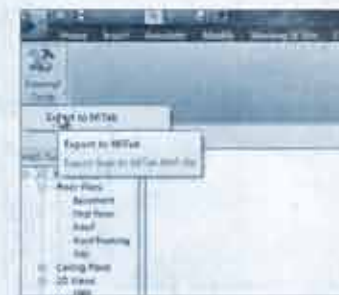
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A Peerless Industry Standard

by Sean D. Shields

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BCMC 2011 Show Guide & Exhibitor Preview

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The mission of *Structural Building Components Magazine (SBC)* is to increase the knowledge of and to promote the common interests of those engaged in manufacturing and distributing structural building components. Further, *SBC* strives to ensure growth, continuity and increased professionalism in our industry, and to be the information conduit by staying abreast of leading-edge issues. *SBC's* editorial focus is geared toward the entire structural building component industry, which includes the membership of the Structural Building Components Association (SBCA). The opinions expressed in *SBC* are those of the authors and those quoted, and are not necessarily the opinions of Truss Publications or SBCA.

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Editor's Message

Laying the Groundwork to Survive & Thrive

by Joe Hikel

Best wishes for a prosperous
future to all.

It seems like it just started, but my role as President of this great association is winding down. In my first Editor's Message, I said one of my goals for SBCA was to not only help members survive current economic conditions but also to thrive in the future. Without a doubt, this has been a tough year for many of our members as the building industry hesitates to recover. We've all had our fair share of hurdles, but SBCA's work continues to strengthen the structural building component industry, as we face today's challenges and lay the groundwork for growth in the years to come.

Of course, the big question is, "When and how fast will the industry recover?" Many of us are still trying to determine the right size for our companies in this economy, while others wonder how to grow when market share increases. Matching capacity to market demand is the key to success. It's a very delicate balance between price, cost, service level and cash flow. Some get it right and flourish, while others struggle. This market is the most difficult I have ever experienced in my 38 years in the business.

It's interesting that my last article runs in the issue of *SBC* focusing on industry history. Since starting out in the industry in 1973, I have had many roles in component operations and seen major changes in the industry. My first job was on the sheathing side of a Triad wall panel line where we manufactured panels from manually drafted shop drawings. After that, I was the saw catcher on a speed cut saw where all the truss members were cut; this plant didn't have a component saw yet.

I have watched the industry evolve from truss profiles manually drawn by sales staff to computer-aided design for basic engineering to today's sophisticated design, manufacturing, and business systems. One can only wonder what will come next as technology drives (and accelerates) change in the industry.

The main focus I laid out for this year was to establish better connections with our supply chain. Working through the lumber design value issue, I believe we have made significant progress with our lumber vendors. The entire supply chain—component manufacturers, connector plate suppliers and lumber producers—came together to address this challenge. Our ability to leverage system testing conducted at the Structural Building Components Research Institute (SBCRI) helped us work through this issue and ensures predictability in our products and the raw materials we use. This adds significant value to the entire industry.

I also wanted to reach out to our customers and collaborate in a more effective way as an industry. We have made progress in that area by establishing connections with the Leading Builders of America. There will be more to come on this collaboration shortly. Forging these relationships at all levels of the building supply chain supports our goal to "survive and thrive."

We have a great industry with great people. It has been a privilege and an honor to serve on the Executive Committee and be your President. I would like to thank the Board of Directors, committee members and staff for all the hard work they do in support of SBCA. I'd also like to welcome incoming President Steve Stroder of

Continued on page 8

at a glance

- Joe Hikel's main focus for this year was to establish better connections with the supply chain. The foundation has been set.
- Collaborative work on the lumber design value issue and forging relationships at all levels of the supply chain goes a long way toward helping the industry survive today and thrive in the future.
- Hikel's personal return on investment on time working within SBCA has been invaluable, both in business opportunities and the personal reward from the relationships formed.



New Fall Protection Regulations & Resources

With OSHA's interim guidelines expiring September 16, many component manufacturers have questions about how to handle fall protection on the jobsite. Check out these resources for the latest on OSHA's standards:

- **BCSI:** The updated BCSI book highlights fall protection requirements under OSHA's new standards and stresses that trusses are not designed to serve as fall protection anchorage.

- **BCSI-B11 Summary Sheet:** Newly revised, the B11 Summary Sheet provides guidance to framing crews on how to assess fall hazards while installing trusses on residential construction jobsites. This bilingual (English/Spanish) document is designed to be included in the Jobsite Package delivered to every jobsite.
- **Catching Up with Fall Protection:** The first in this year's SBCA Annual Workshop & Conference series offers a sneak peek of the BCMC session, "OSHA: Not Just a Four-Letter Word, Part 2: All About Fall Protection". A recorded version of the session is available for purchase.

For more information, visit sbcindustry.com/workshop.php.



BCMC Build Highlights All Components Have to Offer

The thermometer is rising closer to BCMC Build's fundraising goal to build two single-family homes in Indianapolis. The homes will showcase structural building components and related materials including roof trusses, wall panels, floor joists, bracing materials, floor and roof sheathing, and exterior sheathing. There's still time to lend a hand and volunteer or make a donation; contact Jill at jjzimmerman@qualtim.com.

Also remember the BCMC Build 5K Run/Walk, which will take place following BCMC Build. And be sure to check out the BCMC Tri-tacular and Poker Run on the show floor. All proceeds will benefit BCMC Build. **SBC**

Editor's Message

Continued from page 7

ProBuild. Don't blink, Steve, the next year will fly by, trust me.

I urge each and every member to get involved in SBCA. For me, the return on investment of my time and effort has been invaluable, both in business opportunities and the personal reward from the relationships I have formed. Stop by SBCA's booth at BCMC and see all that the association has to offer. I hope to see you in Indianapolis (see page 20).

Best wishes for a prosperous future to all. **SBC**

SBC Magazine encourages the participation of its readers in developing content for future issues. Do you have an article idea for a future issue or a topic that you would like to see covered? Email your thoughts and ideas to editor@sbcmag.info.



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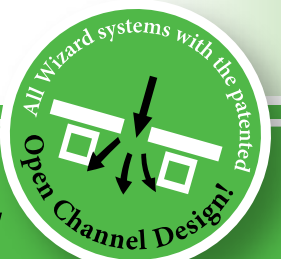
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by Jim Vogt, P.E. & Larry Wainright

An example shows how a building's Occupancy Category can affect the required design loads dramatically.

Question What is meant by the term Occupancy Category? As a truss designer, I see Occupancy Category II noted on residential jobs but recently received plans from a new client with a Category I designation. Who is responsible for determining the Occupancy Category and how does it affect the loads for a structure?

Answer The Occupancy Category designates the intended use for a building, which affects the required design loads for the structure. These loads include flood, wind, snow, earthquake and ice loads. The truss designer is not responsible for determining the Occupancy Category but it's useful to understand the concept and the role it plays in determining loads for a structure.

Occupancy Category	Examples	Importance Factor, I (snow loads)
I Low hazard to human life	<ul style="list-style-type: none"> Agricultural facilities Minor storage facilities 	0.8
II Structures not listed in Categories I, III and IV	<ul style="list-style-type: none"> Residential homes 	1.0
III Substantial hazard to human life	<ul style="list-style-type: none"> Daycare facilities with a capacity > 150 Elementary or secondary school with a capacity > 250 	1.1
IV Essential facilities	<ul style="list-style-type: none"> Hospitals Fire, ambulance and police stations 	1.2

Table 1. Occupancy Categories.

The authority having jurisdiction over a project assigns the Occupancy Category, for both new construction and additions and alterations to existing structures, based on the building permit application. Established on the function a building is meant to serve, the Occupancy Category's Importance Factor determines whether the loads for that structure can be reduced, or need to be increased from a base reference design load.

There are four Occupancy Categories: I, II, III and IV (see Table 1). From lowest to highest, the Occupancy Category describes the potential hazard to human life a structure would pose in the event of failure or serviceability issues. The authority having jurisdiction assigns a category ranging from a low hazard to human life to a significant hazard

or essential structure. For example, an agricultural facility with an Occupancy Category of I would pose a low hazard to human life, whereas a school with an Occupancy Category of III would pose a significant hazard to many people if the building were to fail.

Each Occupancy Category has an associated Importance Factor, which is taken into account when determining a building's structural reliability. There is a direct relationship between the Occupancy Category and the Importance Factor—a low category will result in lower loads and a high category will call for an increase in loads. It's important to note that it is possible for a structure to be assigned multiple Occupancy Categories for different parts of the building. While the Importance Factor is used to modify a number of different design loads, we will look at the Importance Factors that are specifically used to adjust snow loads in Table 2.

Category II is the "default," and therefore, has an Importance Factor of 1.0. Using this as a baseline, anything below Category II would have a reduction in loads and

anything higher than Category II would have an increase in loads. ASCE 7-05 – Minimum Design Loads for Buildings and Other Structures defines Category II as, "[a]ll buildings and other structures except those listed in Occupancy Categories I, III and IV." Essentially, Category II is a catchall for any structures that don't fall into the other categories. This is also the category that applies to most residential homes.

Let's take a look at an example and how it relates to the loading required by Table 2.

Given, Ground snow load (P_g) = 30 psf, Thermal factor (C_t) = 1.0, and Exposure factor (C_e) = 1.0.

For snow loads, the required flat roof design load is defined in ASCE 7-05 as:

$$P_f = 0.7(P_g)(I)(C_t)(C_e)$$

Where P_f = Flat roof snow load
 P_g = Ground snow load
 I = Importance factor
 C_t = Thermal factor
 C_e = Exposure factor.

Since C_t and C_e are 1.0 in this example, the flat roof design snow (P_f) load is 30 (I)(1.0)(1.0) or 30(I). The resulting design snow load for the various Occupancy Categories is then shown in Table 3.

Occupancy Category	Factor	Resulting Flat Roof Design Snow Load from Example Shown
I	0.8	24
II	1.0	30
III	1.1	33
IV	1.2	36

Table 3. Resulting design snow load for the various Occupancy Categories for the example above.

As you can see, the Occupancy Category of a building can affect the required design loads dramatically. Be sure to check the construction documents for the appropriate category to use, or consult with the building designer.

Note: The discussion above relates to the 2006 and 2009 versions of the IBC and IRC and the referenced standard ASCE 7-05. The 2012 editions of these codes reference an updated version of the standard, ASCE 7-10, where a number of changes have been made. Discussion of the 2012 versions will be addressed in a future article. **SBC**

To pose a question for this column, call the SBCA technical department at 608/274-4849 or email technicalqa@sbcmag.info.

Occupancy Category	Importance Factor, I (snow loads)
I	0.8
II	1.0
III	1.1
IV	1.2

Table 2. Occupancy Categories and their associated Importance Factors for snow loads. For more information, see Table 1-1 and Table 7-4 in ASCE 7-05 – Minimum Design Loads for Buildings and Other Structures.

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Remembering Stan Suddarth

A Peerless Industry Standard

by Sean D. Shields

“To my father, it was all about practicality. Everyone had to have a home, it had to hold up and it had to be affordable. It made sense to him. That was why he was so serious about his work.”

—Steve Suddarth

Dr. Stanley K. Suddarth, Ph.D., P.E.
October 22, 1921—June 9, 2011

If I have one hand in the oven, and my other hand is in the freezer, on average, I would think I'm doing alright!" This was a typical analogy used by Dr. Stanley K. Suddarth, Ph.D., P.E., in this case, to demonstrate the potential problems associated with using averages in calculations. When Stan Suddarth passed away on June 9, 2011, in Newburg, Oregon, he left behind a significant legacy in academia and the structural building components industry. In 1986, he was one of the first two inductees into the SBCA Hall of Fame in recognition of his considerable contributions to the industry.

He may be most well-known for his work developing the Purdue Plane Structures Analyzer (PPSA), but his work on the American Society for Testing and Materials (ASTM) D-7 Committee on Wood, the Truss Plate Institute's Technical Advisory Committee (TPI TAC), and his work with USDA Forest Products Laboratory (FPL) all played pivotal roles in the way the truss industry developed and flourished during his lifetime. Before delving into the significance of his many achievements, it's important to appreciate the passion and drive he had for his work, and how his unique personality facilitated the difficult cross over between theoretical engineering concepts and the manufacturing process.

Photos

Above: Stan's most recognizable professional portrait from the mid-1960s.

Pg 13, left: Stan as a young boy, already reading with his pipe.

Page 13, center: Stan at about age 15.

Page 13, right: Marine ID card from World War II.



A Source of Passion

"My father was impressed by mass production," shared Dr. Steve Suddarth, Ph.D., Stan's son and Director of the Configurable Space Microsystems Innovations & Applications Center (COSMIAC) in New Mexico. "He was intrigued at how a small savings in one thing could be multiplied over a large scale to yield a big return." That interest is probably what ultimately led him to focus on structural components, but his life journey is what prepared him for his success.

Stan Suddarth was born and raised in a blue-collar home in Westerly, Rhode Island, by his single mother. His grandfather was a tool and die maker and a skilled machinist, and young Stan started as his apprentice. During his junior year of high school, however, his grandfather gave him \$20 (in 1938, that was a sizable gift) and told him to go to college. "At the time, he had no plans to go to college, but he took his grandfather's message to endeavor for something more," said Steve Suddarth. "His love of working on cars probably influenced his decision to pursue the field of engineering." Ultimately, Stan chose Purdue University, which would become his entire world for the better part of four decades.

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Stan spent college summers as a fire lookout on Granite Mountain in Washington.



Remembering Stan Suddarth

Continued from page 13

He was initially drawn to Purdue's School of Agriculture, perhaps influenced by the fact that many forestry majors got jobs working out in the field. "My father always loved to camp, and during college he got a job over the summers working as a lookout on Granite Mountain in Washington," remembered Steve Suddarth. "As kids, we would go back there often to marvel at the long trek [eight miles rising over 3,800 feet] he had to make from the base up to the tower every day."

After graduation, Stan joined the Marines and fought in the Pacific during World War II. He was assigned to an anti-aircraft radar division. He came from a long line of men who had

served during war time, including his great-great grandfather who had earned the Congressional Medal of Honor for his valor in the Siege of Petersburg during the Civil War.

"He worked with some of the most advanced technology of the time, and he excelled in it, rising to the rank of Captain," explained Steve Suddarth. "That success likely served as a foundation for the confidence he had when he returned home to pursue his advanced degrees."

Watching an Industry Develop

In the early 1960s, there was a desire to construct homes faster and more efficiently. The invention of the metal connector plate in the 1950s and the formation of TPI in 1960 paved the way for a new method of construction that could do just that. However, as this fledgling industry attempted to displace the established practice of building a home one piece of lumber at a time by a skilled carpenter, there were a number of technical issues facing these early pioneers. Stan came into the field at just the right time. His body of work addressed both the mechanical properties of lumber, but also the benefits derived from the use of the metal connector plates at the component joints.

"Stan had a marked influence on critical elements of structural wood design standards," shared Bill Galligan, who worked on collaborative programs with Stan while at FPL and on joint research efforts for over 20 years. Stan was a key figure on the (ASTM) D-7 Committee on Wood, which early in his involvement developed a new approach to standards development regarding the mechanical properties of wood.

"There were so many evolving products in the 70s; composite lumber, I-joists," remembered Don Sharp, a friend and former head of International Engineering for Trus Joist Corporation. "The standards we developed had to become more detailed and prescriptive due to the increasing complexity of the products and the need for sound and reasonable design values."

"My father was always fascinated with the proposition that you could take a naturally occurring organic substance and assign general structural properties to a larger set based on a smaller sample," said Steve Suddarth. One had to look no further than Stan's considerable personal library focused on the history of how wood had been used in structures. "He had this interest in the use of wood in structures and where long-time existing standards had evolved from," remembers Sharp.

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"[During WWII] he worked with some of the most advanced technology of the time, and he excelled in it, rising to the rank of Captain. That success likely served as a foundation for the confidence he had when he returned home to pursue his advanced degrees."

—Steve Suddarth

After college, Stan continued his family's long tradition of service to our country. As a Marine, he fought in the Pacific during World War II, rising to the rank of Captain.



"Not only was he a consistent participant in ASTM D-7, but he also contributed to the National Design Specification," added Galligan. "One unique approach Suddarth took was developing an adjustment to column design for the variability in stiffness of the column material to account for buckling." Stan's research program at Purdue University also examined other aspects of truss design and performance, including relating basic wood properties, lumber design values and truss construction details to plate performance.

In the late 1970s and early '80s, Stan consulted with FPL, which was looking for a roadmap to help align the Laboratory's wood engineering program with national needs in the light frame housing market. "Stan's extensive and time-consuming effort resulted in an FPL publication that provided guidance for research goals and planning for over a decade," pointed out Galligan.

Continued on page 16

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Remembering Stan Suddarth

Continued from page 15

Purdue Plane Structures Analyzer (PPSA)

Stan's ability to successfully attack problems in wood structural design is probably best illustrated through his development of the PPSA. "PPSA solved the vexing problem of how to incorporate plate performance in the analysis of truss design," explained Galligan. "Prior to PPSA, performance was captured only by a variety of estimating techniques." In refining PPSA, Stan applied his unique combination of engineering mechanics, knowledge of wood properties and common sense to a solution that was a major step forward for the industry and standardized a method that could be widely accepted and applied.

At a time when people had desk calculators, and computers the size of large rooms accomplished computations using paper punch cards, the PPSA software program was a leading edge tool of the day. "His PPSA program was at one time or another used for truss analysis by most of the connector plate companies," added Steve Cabler, Senior Vice President for Engineering and Technology for MiTek Industries. "It gave us the flexibility to design more complex configurations and indeterminate components." In many ways, it was the precursor to all the truss design software currently used by the industry to design the complex truss configurations builders and architects rely upon to build today's structures.

TPI Technical Advisory Committee

As the number of truss fabricators grew, the need for standards and guidance for manufacturers increased. During this time, the work of TPI TAC grew in importance, and Stan's participation was a key element. "Stan's research and guidance had a tremendous influence on our industry through his participation in TPI TAC," said Cabler. "When he spoke, people listened. Just having him as a participant gave TPI a high degree of credibility."

"He was also a voice of reason," added Dave Brakeman, Vice President of Engineering at ITW Building Components Group. "At the end of the day, if there was a conflict over a technical aspect of the standard, Stan would generally have the last say." Beyond his expertise, there was a simple reason why he was listened to, and heeded, so often. He was a great communicator.

Continued on page 18

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Remembering Stan Suddarth

Continued from page 16

"Stan had a unique combination of analytical skills, an understanding of their practical application and the ability to communicate well," remembers Galligan. "He was very good at putting things in real, essential terms." Dr. Suddarth was first, and foremost, a college professor, and he enjoyed teaching anyone who was willing to learn. "When I joined TPI TAC in the early 80s, Stan was revered and respected," shared Brakeman. "As a young engineer in the field, I was very appreciative of how approachable and patient Stan was, given his reputation."

His most famous talks usually occurred outside the classroom. "Stan would go on the road with his good friend and colleague Don Percival from the University of Illinois," said Galligan. "Those dog and pony shows discussed wood properties, truss design, truss handling and common sense wood engineering to the audience with a constant flow of jokes and some slap-stick."

An Engineer on Engineered Wood

Metal plate connected wood trusses were not the only product that benefited greatly from Suddarth's contributions. In the 1970s and early '80s, FPL was the only place one could go to get computer design assistance for glue laminated beams. "This stifled innovation in beam construction, limiting options to a few lumber combinations because of either the tedious hand calculation or having to borrow access to the computer at FPL," explained Galligan.



Left: Stan on his 70th birthday.



Center: Firing a canon on the 4th of July, one of Stan's favorite pastimes.



Right: Stan enjoying his 85th birthday celebration.

As desktop computers became more prevalent, he worked with a handful of graduate students to design a software program that could meet design standards, yet be programmed to introduce variable lumber design values into a composite finished product. Galligan added, "Stan then designed a more flexible glulam design program that the American Institute for Timber Construction turned into the first computerized design program for the entire U.S. glulam industry."

Through independent contracting before and after his retirement, Suddarth also worked on the development of products like Weyerhaeuser's parallam beams and other engineered wood products.

Right Person, Right Place, Right Time

It's hard to say where the structural components industry would be today without the influence of Dr. Stanley Suddarth.

Certainly, the beginnings of this industry was borne on the backs of many hard-working visionaries, but the technical demands of these products perhaps required someone of Suddarth's intellectual prowess and practical know-how to ultimately help it flourish.

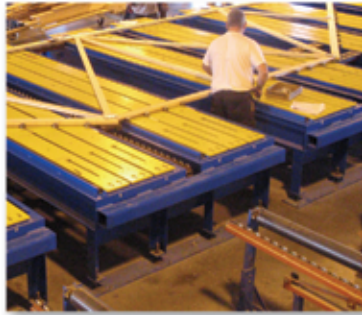
"Initially, you were limited to a few common truss types with recognizable web patterns," said Brakeman. Each truss had to be sketched out and designed by hand, which was time consuming. "Through PPSA and his assistance developing the TPI simplified method and Q-factors, it suddenly became much easier for people to write computer design programs to design trusses."

While Stan will be greatly missed by many in and out of the industry, it is impossible to miss his significant influence, whether you look at fundamental assumptions about the mechanics of wood, industry standards, or truss design software. "To my father, it was all about practicality," shared Steve Suddarth. "Everyone had to have a home, it had to hold up and it had to be affordable. It made sense to him. That was why he was so serious about his work." **SBC**

Many thanks to everyone who contributed thoughts, stories and photos to this remembrance of an industry legend. Keep an eye out for some additional stories about Stan's life in the web version of this article at www.sbcmag.info later this month.



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Schedule of Events

Tuesday, September 20

12p-6p Registration
6p Run for BCMC Build 5K

Wednesday, September 21

7a-6p Registration
7a-8a Continental Breakfast
8a Welcome from the BCMC Chair
8a-9a Kick-off Presentation:
George Hedley
9a-6p Spouse/Guest Hospitality Room
9:15a-10:30a Educational Sessions
9:30a-12:45p Business Success
Blueprint Session
10a Spouse/Guest Orientation by
Indianapolis Convention &
Visitors Association
10:30a-10:45a Coffee Break
10:45a-12p Educational Sessions
12:15p Ribbon Cutting Ceremony
12:15p-6p Exhibit Hall Open
12:15p BCMC Poker Run Begins
4:45p BCMC Bowl Drawing
5p-6p Welcome Reception
5p BCMC Tri-tacular Heat Races

Thursday, September 22

7a-5p Registration
7:30a-8a Sit-down Breakfast
8a-9a SBCA Annual Meeting
8a-5p Spouse/Guest Hospitality Room
9:15a-10:30a Educational Sessions
9:30a Spouse/Guest Tour
10:30a-5p Exhibit Hall Open
12p Tri-tacular Championship Race
12:30p BSG Summit
1p & 3:30p BCMC Bowl Drawings
3:30p-5:30p CM Roundtable:
Your Business Lifeline
4p BCMC Poker Run Ends

Friday, September 23

8a-10a Registration
7:30a-8a Continental Breakfast
8a-9:30a Economic Forecast
9:30a-12:30p Exhibit Hall Open
8a-12p Spouse/Guest Hospitality Room
11:30a BCMC Bowl Drawing
12:30p Official Adjournment
12:30p Plant Tours
6:30p SBCA Board & Top Chord
Club Dinner: All are Welcome!



Events to Benefit the BCMC Build Project



BCMCM BUILD

Monday & Tuesday, September 19 & 20

BCMCM Build, Habitat for Humanity of Greater Indianapolis and Eli Lilly are teaming up for BCMCM Build 2011! We are building two single-family homes. The lots reserved for BCMCM Build are within walking distance. The goal of the event is to foster goodwill in Indianapolis, showcase the benefits of components and unite the industry for a common cause. It's part of the mission to Build Community and Make Connections.

We hope you consider joining us for this exciting project! Visit bcmcmbuild.com to find out how you can participate, make a cash or material donation, look at the house plans or even see video footage from BCMCM Build 2010.

Run for BCMCM Build 5K

Tuesday, September 20, 6:00 p.m.

Join us for this exciting new event and support BCMCM Build 2011! The course will follow Indianapolis' historic White River canal, the heart of the city's cultural district. Walk or run...it's up to you!

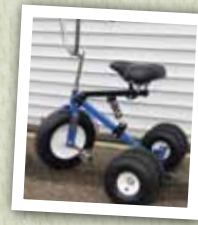


The race start is just outside the Indiana Convention Center on the corner of West St. and Washington St. Everyone is welcome to participate! There is a \$25 entry fee per person. (Register by August 25 to get an official race t-shirt.) The proceeds will benefit BCMCM Build. Register at bcmcmshow.com/bcmcmrun.php.

BCMCM Tri-tacular

Wednesday & Thursday, September 21 & 22

If you haven't ridden a trike since your childhood, now is your chance! Form your team of four and register for a fierce competition around the BCMCM show floor. Registration for a team costs \$100. Win prizes for 1st (\$300), 2nd (\$200) and 3rd (\$100) place! Heat Races are Wednesday from 5 - 6 p.m. The Championship Race is Thursday at 12 p.m. Proceeds will benefit BCMCM Build. Register at bcmcmshow.com/tritacular.php.



BCMCM TRI-TACULAR



BCMCM Poker Run

Wednesday & Thursday, September 21 & 22

Got a good poker face? Then try your hand at the Poker Run! Visit exhibitor booths to trade tickets in for playing cards. When you have all your cards, turn your hand in at the BCMCM Build booth. The player with the best hand wins!

All hands must be submitted by 4 p.m. on Thursday. \$25 entry fee per person. The winning hand will receive 25% of the pot collected from event registration by September 16. The remaining proceeds will benefit BCMCM Build. Register at bcmcmshow.com/pokerrun.php or on the Advance Registration Form.



Kick-Off Presentation: George Hedley • 8:00 a.m.

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Exhibitor Profiles

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BCMCM Build embodies the spirit of Building Community, Making Connections. As the second annual charity build held in conjunction with the BCMCM Show, BCMCM Build will occur September 19 and 20 in Indianapolis. We're excited to announce partners Habitat for Humanity and Eli Lilly and Company who will help us coordinate the Build. We're upping the ante by building not one but two single family houses!

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Economic Forecast 8:00 a.m.

Mark Vitner

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Mark's commentary has been featured in the *New York Times*, *Wall Street Journal* and *BusinessWeek*. His commentaries also frequently appear in SBC Industry News Top Headlines. This is Mark's second time speaking at BCMC. After his excellent presentation in 2010, you asked us to bring him back this year.

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ITW Building Components Group

See ad on page 28

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Exhibitor Profiles

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Panel Fastening Systems - ITW Building Components Group

ITW Panel Fastening Systems (a division of ITW BCG Equipment) is a supplier of pneumatic and cordless nailing, stapling tools and fasteners for the wood panel industry. We offer Paslode, Duo-Fast and ToolMatic brand tools and fasteners. Our tools are compatible with all U.S. and European automated panel equipment.

PANELS PLUS

See ad on page 11

Panels Plus is a customer focused company. Our equipment is designed and built with expansion in mind. As your business grows so can your system. We can help with your building layout and efficient equipment choices. Customer service, installation, and training sets Panels Plus apart from the rest.

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Blenker Building Systems

“[Economist] Mark Vitner is the best and most authoritative person I have ever heard in his field.”

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Dansco Engineering



Exhibitor Profiles

Pennsylvania Lumbermens Mutual Insurance Company

See ad on page 17

PLM specializes in property and casualty insurance for the lumber, wood-working and building material industries. We offer competitive rates, and prompt claims handling. We carry an A.M. Best rating of A (Excellent) and will work with any licensed agent of your choosing.

Contact: Ms. Charlotte Friend • 800-752-1895 • 215-625-9097
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Rayonier Wood Products

Rayonier Wood Products manufactures high quality Southern Yellow Pine lumber. Rayonier is a quality-driven, service focused company. Our production facilities give us the flexibility to offer customers the highest quality products for use in construction, remodeling and decorative applications. We have been producing top-grade lumber products since 1926.

RC Packaging Systems, Inc.

RC Packaging Systems is an American manufacturer of polyester cord strapping and buckles for over 35 years. Our product lines include: woven and non-woven light duty cord, heavy duty and extra heavy duty cord and polypropylene coated composite cord strapping. We also manufacture our phosphate coated and galvanized buckles.

Richmond International Forest Products, LLC

After decades of EWP's proven performance, we're now expanding into this market. Our traditional expertise in supply chain management will ensure inventory and inbound materials that will meet your demands. And the people behind the EWP Division have over 20 years' experience supporting EWP.

Robbins Manufacturing Company

Robbins Lumber offers distribution centers throughout the Midwest specializing in MSR Pine and MSR spruce lumber. We have office locations in Florida, Michigan and Chicago, IL. Stop by our booth and let us show you our commitment to customer satisfaction.

Sauter-Timber LLC

Sauter Timber is North America's first Joinery Center for heavy timber components. We supply the building industry with pre-cut heavy timber components to match with other components, as well as complete timber frame and hybrid homes.

SBC Research Institute

The SBC Research Institute (SBCRI) offers an extensive list of testing options under a variety of application, attachment and loading conditions, all of which will lead to more accurate and efficient design and improved installation/use of products. SBCRI has ISO/IEC 17025 ACLASS accreditation.

Sherwood Lumber

Sherwood Lumber is a distributor, risk manager and broker of lumber, plywood and industrial building materials.

Simpson Strong-Tie

See ad on page 6

Simpson Strong-Tie Company is the world's largest manufacturer of steel connectors for wood construction. The product line totals nearly 7,000 items, with more than 1,700 different joist hangers alone. Strong-Tie® connectors for solid timber, composite wood products and plated trusses are the most specified of any brand.

Contact: Ms. Frankie Emerson • 925-560-9000 • 925-847-1603
femerson@strongtie.com • www.strongtie.com

SL-Laser Systems

Founded in 1988, SL Laser has been a pioneering force in the development of precision single and multiple head laser projection systems for truss, floor deck and wall panel systems. Our patented hardware and state-of-the-art software feature many user-friendly features designed to enhance functionality, while prompting the easy-to-use fundamentals that make our systems the industry benchmark. Seamless integration between TrussPilot™ software and hardware results in reduction of production costs and an increase in accuracy and profitability.

SpaceJoist - ITW Building Components Group

Capture a growing market with SpaceJoist, the industry standard and lightest open-web floor joist available. This truly unique truss system combines the best features of a wood I-joist and an open metal web floor truss to deliver a quality product for maximum efficiency. SpaceJoist is the premier floor system for both commercial and residential applications. See how this INNOVATIVE product can benefit your company.

Spotnails

Spotnails has been one of the leading manufacturers of pneumatically driven fasteners for nearly 70 years. The company manufactures a wide range of industrial fastening products including nails, staples, pins, brads and tools for use in packaging, furniture/woodworking, construction, factory-built housing and many other industries.

Structural Building Components Association

Representing component manufacturers, builders, material suppliers and industry professionals, SBCA provides the tools to protect and grow your

business. Whether it's educational resources, risk management strategies, building code watch, financial/wage surveys, legislative alerts, in-plant safety and quality control, transportation issues, technical training or marketing plans, SBCA provides tangible benefits to members.

Structural Building Components Magazine

Structural Building Components (SBC) Magazine is the component industry's primary resource for leading-edge information about current issues, trends and products that affect the future of framing. SBC staff welcomes your feedback and article ideas at editor@sbcmag.info.

T.R. Miller Mill Co., Inc.

T.R. Miller Mill Company has been a quality lumber producer since 1872. We offer a full line of Southern Yellow Pine products, specializing in machine stress rated (MSR) lumber for the truss industry. Visit our booth and let us help you with your future lumber needs.

Taiga Building Products LTD

Taiga Building Products is the premiere supplier to the building products industry in Canada. The exclusive distributor of Louisiana Pacific's Engineered Wood Products and the Master Licensee and partner of Keymark software, Taiga brings together product expertise, automated engineering software, quality products, and industry leading distribution services.

Truss Plate Council

SBCA's Truss Plate Council acts as a forum and a resource for the companies that supply truss plates and component design software.

Truss Plate Institute

The Truss Plate Institute (TPI) and its members are connecting the truss industry. Stop by our booth to learn about our nationally recognized 3rd Party Quality Assurance Inspection program, to learn about the ANSI/TPI 1-2007 standard, and to review and ask questions about other guidelines and technical publications such as BCSI!

TrusSteel - ITW Building Components Group

TrusSteel is the most accepted; most specified cold-formed steel (CFS) truss system on the market today. No building component system combines strength, stiffness, fire and insect resistance and design flexibility so well. Our product line is built upon the extensive truss engineering and software knowledge inherent in all ITW BCG products.

USP Structural Connectors

USP Structural Connectors serves the residential and commercial building industries throughout the US and Canada. Our product line encompasses over 3000 parts, including a line of connectors for the engineered lumber and plated truss industries and is backed by an in-house engineering staff, technical assistance team and customer service.

Exhibitor Profiles

Virtek

Virtek is the leading developer of precision laser-based solutions enabling component manufacturers to produce products faster, better and at lower costs. The Virtek TrussLine Laser Projection System, with new green lasers that provides improved visibility with new software that features improved usability, real-time production status, and reporting functionality.

Wall Panel Council

SBCA's Wall Panel Council provides information and resources for the manufacturers of wood wall panels and their suppliers, and it will assist them as they act to expand the market for their products.

Wasserman & Associates, Inc.

See ad on page 16

Wasserman & Associates is a representative for new truss, wall panel, stair, door and fingerjointing equipment. We also offer the option of used or reconditioned equipment. As a partner in your equipment selection process, we promote the equipment that best suits your individual requirements, not the equipment that optimizes our commission. We will be displaying a wood fingerjointing line in our booth.

Contact: Mr. Rod Wasserman • 402-438-2161 • 402-438-2524
rodwass@aol.com • www.wasserman-associates.com

WEIMA America, Inc.

For over 20 years WEIMA has been providing customized shredding solutions. Size reduction can be used to sell chips, provide boiler fuel or simply save on hauling & labor costs. WEIMA America, Inc. offers both hopper-fed & horizontal machines with features like the V-Rotor System and the Cylinder-Assisted Lift-Up Screen.

Wood Truss Council

The Wood Truss Council (WTCA) is SBCA's largest council. Representing the wood structural building components industry in the U.S., Canada and internationally, WTCA provides a comprehensive supply of tools and resources for wood truss manufacturers.

Wood Truss Systems, Inc.

See ad on page 15

Innovative and objective solutions. Fully independent, we search from a variety of suppliers for new and used equipment that best meets your needs. Count on effective and economical solutions featuring new/used: truss equipment, wall panel equipment, saws—linear, component, radial arm, automated jiggling, production consultants, and WoodRunner—automated lumber retrieval system.

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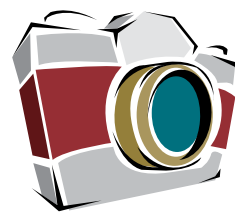
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Parting Shots

Share your stories and photos with us! Send submissions to partingshots@sbcmag.info.



It's the end of an era for the structural building components industry. Richard Brown, former President of Truss Systems (Oxford, GA), retired May 31. The industry sends its best wishes to a "true Southern gentleman."

Since entering the roof truss industry in 1972, Richard has made several significant contributions, including serving as SBCA President (1998-1999) and as Chairman of the Carbeck Structural Components Institute. He was inducted into the Hall of Fame by his peers in 2004, and is a Diamond Club member of the SBCA Top Chord Club. (Above, Scott Arquilla (Best Homes, Inc., retired) presents Richard Brown with the 2004 Hall of Fame Award.)

"When I met Richard through the SBCA quarterly meetings, it was my first opportunity to work with a true Southern gentleman; he seemed to go out of his way to welcome me to the industry," said Kendall Hoyd, a fellow former President of SBCA, and current CFO for Trussway Holdings, Inc. "Richard is an authentic person with a keen mind for business and a good heart to boot."

We couldn't have said it better ourselves. Thank you for your years of service, Richard, and enjoy your retirement! **SBC**

SBC Photo Contest – Give us your best shot!

No really, send us your industry photos. **SBC** is launching its 2011 photo contest! Send us your photos of interesting projects, key events in industry history, anything that tells the story of structural building components. Email your photos* (high resolution, 300 dpi, preferred) along with a brief description to epatterson@sbcmag.info. Finalists can win **SBC** swag, and top photos will be posted on the new **SBC Magazine** website over the next few months.

*Photos submitted may be used in SBC Magazine or other SBCA materials.



OPEN UP AND SAY AHH!

{ WE AREN'T DENTISTS, BUT WE DO SEE A LOT OF TEETH. }



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OSHA Has New Residential Fall Protection Rules!



Put them in your jobsite packages before enforcement begins September 16!

For reader service, go to www.sbcmag.info/sbca.htm

The Newly Revised B11 Summary Sheet:

Provides guidance to framing crews on how to assess fall hazards



Stresses trusses are not designed to serve as fall protection anchorage



References OSHA requirements regarding fall protection equipment

WORKING TOGETHER

Instinct delivers better collaboration for residential construction



ITW BCG is proud to introduce a comprehensive residential design system that offers construction professionals new ways to work together and create more customer value.

“Instinct” - Residential Design System is a process that allows all industry experts to capitalize on work already done. ITW BCG’s VisionREZ, VIEW, IntelliBuild, IntelliVIEW and hsbCAD software programs work seamlessly making collaboration even easier. Using the **Instinct** process, a 3D “Building Information Model” (BIM) file is created and shared between each trusted profession. Now tough design and build issues can easily be worked out on-screen - avoiding costly oversights and problems on-site.

We call the process **“Instinct”** because it is a common sense approach to working together. It just makes sense to collect exact project specifications in a complete 3D model that can be reviewed before construction begins. Now everyone knows exactly what is specified on the job and can be held accountable.

The good news is that bringing the residential construction industry together with better software is just the start – defining new smarter ways of working together is the natural next step. The best news... **the system is available today!** See **Instinct** for yourself at BCMA in Indianapolis!



Better Collaboration is only natural.

ITW Building Components Group

Call **800.521.9790** today to setup a demonstration of **Instinct**.

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