

FRAMEWORK

YOUR GATEWAY TO THE STEEL FRAMING INDUSTRY

presented in metalHOME DIGEST



A FEW WORDS ABOUT STEEL

34 STEEL FRAMING ALLIANCE MEMBERS EXHIBIT AT 16TH ANNUAL METALCON INTERNATIONAL

**RECORD STUD UNIVERSITY CLASS OF 35
BUILD STEEL-FRAMED HOME FOR SEVERELY INJURED VETERAN**

BY ALL ACCOUNTS, THIS YEAR'S METALCON INTERNATIONAL, THE STEEL FRAMING INDUSTRY'S ANNUAL "HOMECOMING" EVENT, WAS A SHINING SUCCESS WITH THE MOST ATTENDEES AND EXHIBITORS EVER, INCLUDING 34 STEEL FRAMING ALLIANCE MEMBERS.

One of the biggest highlights was the dedication on October 3rd to U.S. Army SSG Paul Russell "Russ" Marek of a three bedroom, ADA-compliant steel-framed house installed by nearly three dozen Stud University students. In addition to STUD U, the Steel Framing Alliance also sponsored nine special educational sessions at this year's METALCON, which took place October 3-5 at the Tampa Convention

Center. In addition, 34 members of the SFA were featured exhibitors, helping to fill the 80,000 square feet of space that drew more than 7,300 design and construction professionals from 40 different countries to the 16th annual METALCON International tradeshow and conference.

Before a packed audience and with the help of the University of Tampa U.S. Army ROTC honor guard, the ceremony marked the beginning of a new stage for the severely injured 35-year-old Satellite Beach, Fla., native. When the national anthem opened the ceremony, SSG Marek, supported by his parents Rose and Paul, was able to get up from his wheelchair and stand briefly. He was released less than a week earlier from the Tampa

Bay Veteran's Administration Hospital where he spent more than a year recuperating from injuries sustained when his MIA 1 Abrams tank was destroyed by enemy fire in Iraq. The incident severed SSG Marek's right arm and leg, part of his right ear, and part of his left hand. He also suffered severe head trauma and burns over 20 percent of his body.

Thanks to several generous donations, SSG Marek's new home was built by instructors and construction professionals enrolled in STUD U, an intensive three-day steel-framing program held each year at METALCON and produced by the Washington, D.C.-based Steel Framing Alliance. Now in its fourth year, STUD U is usually restricted to 24 students. This

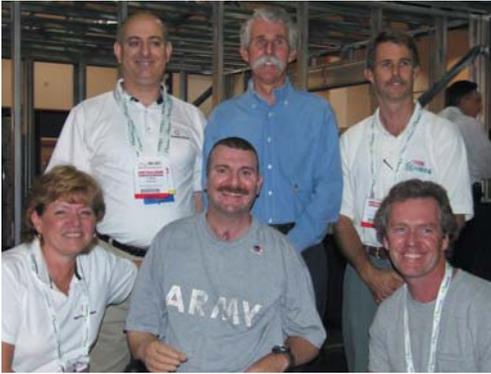
TABLE OF CONTENTS

A Few Words About Steel	27-29
34 Steel Framing Alliance Members Exhibit At 16th Annual METALCON International	
Letter From The President	30-32
News Briefs	32
2005 Market Share Numbers Point To Increased Growth	33
From The Forum	34
Meet Todd Setter, West Coast Field Representative	36
Education and Training	37
Local Alliance Updates	38-39
LGSEA Changes Name to CFSEI	39-40



Stud U instructors Maribeth Rizzuto and Nader Elhadj review the house plans with SSG Marek as his parents, Rose and Paul Marek, look on.

**METALCON WRAPUP...
CONTINUED FROM PAGE 23**



Just before the dedication ceremony, Stud U instructors took a moment to pose for a picture with SSG Russ Marek. Pictured from left to right in the front row are Maribeth Rizzuto, SFA director of training and education; SSG Marek; and Sam Salley, a volunteer. In the back row are Nader Elhadj, director of research and development, National Association of Home Builders; Danny Feazell, president of Premium Steel Building Systems, Inc.; and Tim Feazell, Lifestyle Custom Homes, Inc.

year, however, a record 35 individuals interested in learning how to build with steel arrived for the first session Sept. 30 from as far away as New Orleans, Colorado, Hawaii, New Zealand, Trinidad, and Brazil.



Alan MacQuoid, who is with Corporate Finance Associates and chairs SFA's Gulf Coast rebuilding committee, with Hans and Ana Lena Bergkvist of Attexor Tools in Switzerland and Greg Ralph, SFA Board member, at the SFA Fall Forum, co-sponsored by the Alliance and Modern Trade Communications.

For Jim Dicke, who is planning to start his own steel fabrication company, the three days he spent at STUD University were extremely helpful. "It's critical to see where the design applications come from in the classroom," Mr. Dicke said. "The hands-on experience is really valuable just to see how you build with it and then actually do it."

The Fort Collins, Col., resident also pointed out it helps that so many huge changes have taken place in the steel framing industry over the past decade. "Local fabrication is so much easier. Machinery was not automated to the extent it is now and the tools are better." An SFA member since January, Mr. Dicke added that the SFA is a really good resource and that the "training and education has absolutely improved."



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- Simpson Strong-Tie, Pleasanton, CA
- Steel Construction Systems, Orlando, FL
- Steel Elements, Inc., Gorham, NH
- Trakloc International LLC, Temecula, CA
- U.S. Steel Corporation, Pittsburgh, PA



Pictured inside the steel-framed home installed by this year's STUD University class are Bill Kraft; Larry Williams, SFA president; Roberta "Bobbie" Kane, Hawaii Pacific Steel Framing Alliance Board of Directors; and Nader Elhaji.

According to Maribeth Rizzuto, the SFA's director of education and training, generous donations are what make the STUD University program possible. "The program (STUD U.) is heavily subsidized and thanks to these donations, we are able to keep the fee low for students." In addition to the program, students receive METALCON registration, several publications, a one-year SFA membership, and even a few tools they'll need to get started.

Using classroom and hands-on training in cold-formed steel framing, STUD U students and instructors build a steel-framed structure inside the exhibit hall as part of the course. Industry associations and exhibitors donated time, resources and materials to SSG Marek's new home, which will be shipped later to Melbourne, Fla.

The Steel Framing Alliance would like to thank the following contributors for making the STUD U program and steel-framed home for SSG Marek possible:

Aegis Metal Framing, LLC, Chesterfield, MO
 Aerosmith Fastening Systems, Indianapolis, IN
 American Iron and Steel Institute (AISI)
 Washington, DC
 Dietrich Industries, Inc., Pittsburgh, PA
 ET&F Fastening Systems, Inc., Solon, OH
 Fast Arch of Florida, Inc., Cape Coral, FL
 Flex-Ability Concepts, Edmond, OK
 Grabber Construction Products, Concord, CA
 Integrity Gasket, Medina, OH
 Irwin Industrial Tools, Huntersville, NC
 Metwood, Inc., Boones Mill, VA

Mid-Atlantic Steel Framing Alliance
 Upper Marlboro, MD

Premium Steel Building Systems, Inc.,
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Quik Drive, Simpson Strong-Tie Comp.
 Simpson Strong-Tie, Pleasanton, CA

Steel-Con Trusses, Steel Construction
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Steel Stud Manufacturers Association,
 Chicago, IL

Structeavent LLC, subsidiary of Metal-Era Inc.,
 Waukesha, WI

Trakloc Southeast, Hendersonville, TN

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METALCON 2007!

Mark your calendars for next year's METALCON, which is scheduled for October 3-5, 2007, at the Las Vegas Convention Center. 91 percent of the exhibit space is already booked for the 2007 show! For information about METALCON, visit www.metalcon.com. For details about exhibiting, contact Paula Parker at PSMJ Resources Inc., 617-965-0055, or 800-537-7765, or pparker@psmj.com.

STUD U STUDENT SYDNEY DOBSON ANXIOUS TO TAKE WHAT HE LEARNED BACK TO THE REBUILDING EFFORT IN THE GULF COAST



STUD University student Sydney Dobson, who has been with Nunez Community College in Louisiana for the past 28 years, talks to SSG Marek and his mother, Rose, after the dedication ceremony.

For some STUD U students, learning how to build with steel means even more than learning a trade. Sydney Dobson, who lives in St. Bernard Parish, just east of New Orleans, signed up for STUD U to learn what he could to get a steel framing program started at Nunez Community College, where he is the director of facilities. He is also interested in helping restore his community.

"We're trying to get something going," Mr. Dobson said. "We still have to let some of this wear off, it's still too fresh."

According to Mr. Dobson, conditions there are still a lot like living in "primitive times." "A lot of tanker trucks are running around everyday, carrying fresh water, even sewage. The sewer system is still not up."

He says he learned a lot from his three days in STUD U and is anxious to get a program going, especially since one of the biggest challenges the area's rebuilding effort faces is getting a trained and skilled workforce. "FEMA is paying so much to people just to do the immediate jobs, like trash pickup. We don't really have a good workforce to pick from."

The Steel Framing Alliance actually approached Nunez Community College a while back about getting a steel framing program started, but then Hurricanes Katrina and Rita hit. "We're anxious to get going, and the Steel Framing Alliance will help supply us with the tools to get us started."

There are a few promising signs the area is starting to return to normal, like the sight of the Golden Arches. "We just had a McDonald's open up, the first national icon," Mr. Dobson said. "You can't get near it at lunchtime. Takes an hour just to get a hamburger."

LETTER FROM THE PRESIDENT



AS I WRITE THIS NOTE, 2006 IS STILL MONTHS FROM BEING OVER. BUT I CAN REPORT WITH CERTAINTY THAT WE WILL LOOK BACK AT THIS YEAR AS ONE WHERE THE EFFORTS OF SFA

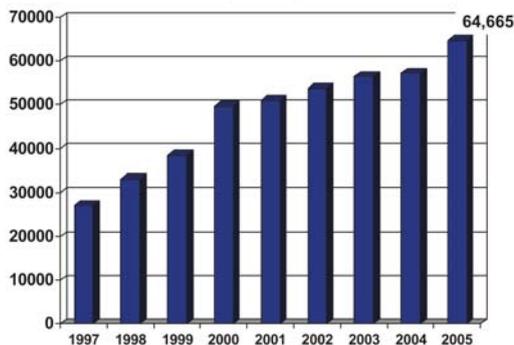
MEMBERS AND PARTNERS, AND THE HARD WORK OF THE SFA STAFF GOT THE WHEELS OF PROGRESS TURNING FASTER. WE'RE PARTICULARLY GRATEFUL FOR THE GENEROUS SUPPORT OF OUR KEY PARTNERS OF THE AMERICAN IRON & STEEL INSTITUTE AND STEEL STUD MANUFACTURERS ASSOCIATION FOR STEPPING UP THEIR SUPPORT AND MAKING KEY MARKET DEVELOPMENT PROGRAMS POSSIBLE.

In the past ten years, NAHB Research Center data tells us that approximately 450,000 houses have been built with steel framing in one or more applications. Thanks to the investment of our partners and support of our members, I believe that it will only be a few more years before the next 500,000 homes are built with steel.

I'm happy to report on some of the initiatives that will make this happen.

Homes Built With Steel Framing

(United States)



GULF COAST STEEL INITIATIVE

Rebuilding the hurricane-ravaged Gulf Coast region will be a massive effort that we expect will take a solid decade to com-

plete. For Steel Framing Alliance (SFA) members, it is also a critical opportunity to ensure that these structures are rebuilt with a stronger, more durable material – steel framing. We are excited to report that after several months and a lot of hard work creating and refining the SFA's response to the area, things are already starting to happen.

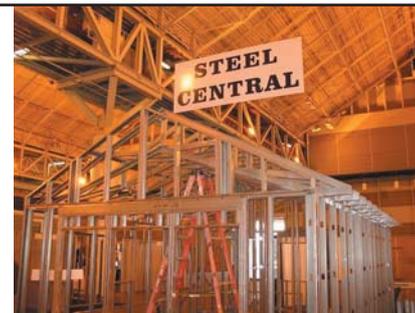
PRESCRIPTIVE METHOD

In response to the need for increased performance by building materials in hostile weather conditions, the American Iron and Steel Institute has revised the Prescriptive Method, increasing the wind load requirement for residential framing up to 150 mph. This makes building with steel more competitive in high-wind regions like South Florida and the Gulf Coast. Named the 2001 edition, Supplement 2, the new version is now available by visiting www.steel framing.org. In addition to enabling prescriptive design of steel framed structures for certain coastal areas, this revision has been positively received by major insurers and made steel framing eligible for existing industry programs such as the Fortified Home. The International Code Council (ICC) hurricane resistance construction standard will also reference the new Prescriptive Method.

HOUSING SOLUTIONS SUMMIT

SFA made a strong impression for our members and the steel industry with our 400 square foot "Cajun Cottage in Steel Central" Sept. 29-30 at the New Orleans "Housing Solutions Summit." The Summit was hosted by the City of New Orleans, Home Builders Association of Greater New Orleans, the State of Louisiana and Entergy. It was an excellent opportunity for SFA and our members to exhibit and demonstrate steel's superior

Steel-framing for the "Cajun Cottage in Steel Central" at this fall's Housing Solutions Summit in New Orleans.



performance to homeowners, renters, leasing agents, contractors, businesses and investors who live in a region prone to severe storms. We were able to make a statement that we are here and we are going to be involved in this important rebuilding process.



Housing Summit attendees learn more about steel framing.

Rebuilding the Gulf Coast is going to take upwards of a decade, and it's not a place where anyone is going to make a lot of money overnight. Participating in the Summit was a good reminder to us all that if we are going to do something and help



SFA president Larry Williams with Adam Shoemaker, Dietrich Construction Group, at the Housing Solutions Summit.

make a difference, we have to commit ourselves for the long haul and continue becoming a visible part of the community.

MEETINGS WITH INSURANCE COMPANIES

We also met with both State Farm and Allstate insurance companies this summer. State Farm has agreed to seriously consider case studies of steel-framed structures that have survived hostile weather conditions. We are aware of at least six steel framed structures that have survived Hurricane Katrina, and are evaluating their location and circumstances to determine if any could be a potential case study site. In addition, Allstate recognized that steel framing is an important component in their efforts to encourage better, more disaster-resistant construction methods and materials.

Also on the agenda are exploratory discussions with the Louisiana Department of Insurance, which are tentatively set for November. There is enormous pressure on both the DOI and insurers to find a solution that balances the needs of local residents for access to insurance and the need for insurance companies to manage their exposure. We believe that steel framing can be a solution that helps achieve that balance.

We continue to enjoy the good fortune of the builders risk discount program that has been offered by Zurich Insurance Services since 2005. According to Zurich executives, they are the only company currently writing builders' risk policies in Louisiana and Mississippi.

SFA-BUILDER COOPERATIVE PROGRAM

With the elements of the Builder Cooperative program now more focused, Ernie Casados, Gulf Coast Technical Field Representative, has been working to establish coordinated support for builders who commit to framing with steel. These builder partners must meet SFA's basic requirements: be an established builder with a solid reputation in the community; be in good standing with vendors, sub-trades, and building officials; be interested in building with steel and have the ability to develop and maintain the support of their sub-trades during the conversion process; have the ability to manage multiple projects in all stages of construction, and be receptive to receiving support from SFA and the technical field representative.

The SFA Operating Team and Board are evaluating potential candidates, and additional targeted contacts are underway.

FORTIFIED HOME

After meeting with the Institute for Business and Home Safety (IBHS) and Fortified Home program managers in Tampa, Fla., this spring, we developed suggested additions to their Builder Guide so that provisions for steel framing were on equal footing with wood framing guidelines. In addition to construction methods, details and best practices from the AISI Prescriptive Method, the additions included SFA resources and technical documents. Once AISI Code staff completes a final review of this draft, an updated Fortified Builder Guide is expected to be developed.

MIRACLE MANSION

In an effort to further promote the use of steel in residential construction, the Steel Framing Alliance has agreed to assist with the design and construction of a high-profile project home in the Gulf Coast Region. The program is sponsored by the Capital Region Builders Association in Baton Rouge, Louisiana, whose members appreciate the many benefits of steel as a desirable material for the local market.

Once complete, the steel-framed home will be raffled off on, with proceeds going to the Our Lady of the Lake Children's Hospital. The home will receive extensive advertising and marketing support, including being the spotlight project in the area's annual Parade of Homes in April 2007, a series of weekend "open house" events during May, concluding with feature spots during a two-day telethon at the end of which the winner is announced live on air.

This is a perfect opportunity for SFA to work with an established program with very positive perceptions in the area. Through this project, we're looking forward to building a strong connection to this very reputable home builders' organization. We'll also have tremendous opportunities to promote steel framing to consumers, policy-makers and builders. (Note: A more in-depth article about this worthy project

will appear in the January/February edition of Framework.)

TECHNICAL FIELD REPRESENTATIVES



In keeping with its mission to make steel framing easier to use, less expensive and less time consuming, the SFA hired two technical field representatives (TFR) earlier this year. Ernie Casados serves the Louisiana/Mississippi market, while Todd Setter is responsible for the West Coast region. Their primary responsibility is to serve as the enabling force between the residential building industry and SFA partners in their assigned local market.

In addition to creating and sustaining demand for steel framing products in residential applications, both Ernie and Todd also market steel framing to homeowners, developers, architects, engineers, distributors, framers, building officials, trade groups, and homeowners. This involves the use of the tools set up by the SFA to make it easy and cost effective for the residential business industry to try, and regularly use, steel framing. They also manage all aspects of the sales process including market analysis, lead generation and qualification, quoting, closing, training, site coordination, and follow up.

To date, both Ernie and Todd have been well-received in their markets. Ernie has joined the local home builders associations in SFA's target areas, and Todd regularly participates in the California Steel Framing Alliance (CAFSA) and other associations there. Now that the market analysis phase is wrapping up, Todd is getting ready to develop his list of target builders to start making contact. Meanwhile, Ernie is following up with more than two dozen target builders to begin making sales calls.

LETTER FROM THE PRESIDENT...
CONTINUED FROM PAGE 31

**NEW TRAINING
 AND PROMOTIONAL TOOLS**

We launched a new and very successful training seminar in February that covers the essential knowledge and techniques for the correct installation of cold-formed steel for most load-bearing and non-load bearing projects. Called STEEL - Doing It Right, the program consists of three days of classroom instruction, given in a format that promotes interaction between the participants and the professional engineer instructors. In addition to giving attendees a competitive advantage, the benefits include increased production, better estimating, better project management, better quality control and fewer surprises. Also organized by the Association of Wall and Ceiling Industry (AWCI), STEEL - Doing It Right has already been offered in Atlanta, Houston, Baltimore, and Denver. The next program will be offered in San Antonio, TX, Feb. 1-3, 2007.

By the end of the year, field guides will be available for all the sub-trades (electricians, plumbers, etc.). SFA is also coming out with a brand new national training curriculum, which includes a design example, based on the revised prescriptive method up to 150 mph. This will make it possible for anyone in any part of the country to use this curriculum.

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NEWS BRIEFS

REVISIONS MADE TO THE CODE OF STANDARD PRACTICE

In another step forward for the steel industry, the American Iron and Steel Institute (AISI) recently revised the Code of Standard Practice for Cold-Formed Steel Structural Framing with Commentary. The new document helps define the lines of responsibility in cold-formed steel framing design and construction. Developed by the AISI Committee on Framing Standards (COFS), it was reviewed by several industry peer committees and endorsed by the Association of Wall and Ceiling Industries (AWCI), Steel Framing Alliance (SFA) and Steel Stud Manufacturers Association (SSMA). In addition to defining accepted norms of good practice for fabrication and installation of cold-formed steel structural framing, the Code of Standard Practice also helps define the roles of the owner's representative, architect and engineer of record, specialty engineer, manufacturer, framing contractor and truss/wall panel supplier in the design and construction of cold-formed steel framed structural systems. Topics covered include general requirements, classification of materials, plans and specifications, installation drawings, materials, manufacture and delivery, installation requirements, quality control, and contractual relations. The 2006 edition includes new provisions related to clarifications, revisions and the RFI process, contract price adjustment and scheduling. The new Commentary helps explain, clarify and illustrate the provisions. Visit the SFA Web site at www.steelframing.org for a free download.

UPDATES TO FIRE AND ACOUSTIC DATA

The popular "Guide to Fire and Acoustic Data for Steel Floor and Wall Assemblies" has been updated to include the latest data from fire and sound transmission tests, and posted on the Steel Framing Alliance (SFA) website at www.steelframing.org. The directory in its previous form included only generic floor and wall assemblies with generic products that had been tested or listed by North American agencies. These agencies included Underwriters Laboratories, Underwriters Laboratories Canada, the Gypsum Association, the National Research Council of Canada, and Factory Mutual Research. The new

directory still includes all values from the previous edition, but has been expanded to include proprietary systems, newly tested assemblies, and roof-ceiling assemblies. One of the biggest additions was the development of acoustic estimates, based on acoustic modeling software developed by Alf Warnock called "Socrates - the Sound Classification Rating Estimator."

The 2006 version of the guide is now titled, "Guide to Fire and Acoustic Data for Steel Floor, Roof and Wall Assemblies" to reflect the addition of roof/ceiling rated assemblies. Several of these new roof/ceiling assemblies include proprietary truss shapes, while others include rafters and generic trusses made from back-to-back channel member assemblies. The current version of the guide contains 177 listed assemblies in 77 pages - a substantial increase over the 54-page document released in 2005. Originally published in August 2003, this is the fifth update of the Guide, and the most comprehensive.

"Working with the industry, we were able to include the latest information available," said George Frater of the Canadian Steel Construction Council and American Iron and Steel Institute. "Adding the data from SOCRATES provides designers with additional values to consider, as more and more multi-family and other projects consider acoustic performance essential to a successful project."

According to Frater, More information on "Socrates" is available at www.alfwarnock.info/sound/socindex.html. Here, users can perform acoustic estimates for floors and walls. Dr. Warnock has developed the equations to estimate sound ratings in Socrates using multi-variant regression analysis, based on an analysis of the results from several large sets of measurements (174 joist floors, 117 non-load bearing walls, 39 load bearing walls and 48 double stud walls) made at the Institute for Research in Construction of the National Research Council of Canada. Financial and material support for some of the research and testing was provided by the Steel Stud Manufacturers Association and the American Iron and Steel Institute. At the Steel Framing Alliance website (www.steelframing.org), the entire guide may be downloaded, or the online search feature may be used to quickly find listed assemblies using specific criteria.

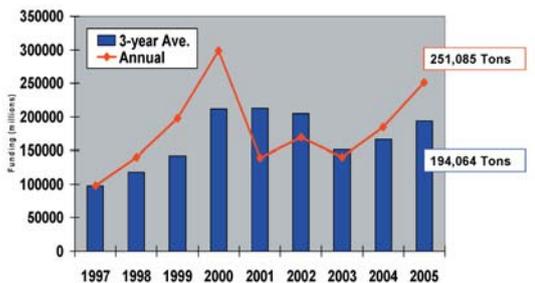
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2005 MARKET SHARE NUMBERS POINT TO INCREASED GROWTH FOR STEEL FRAMING INDUSTRY

SHIPMENTS OF STEEL FRAMING MATERIALS IN 2005 JUMPED FROM 166,488 TONS IN 2004 TO 194,064 TONS IN 2005, USING THE THREE-YEAR AVERAGE. THE YEAR-TO-YEAR NUMBERS SHOWED AN EVEN MORE SIGNIFICANT JUMP, WITH 251,085 TONS SHIPPED IN 2005 OVER 184,000 TONS IN 2004. THESE AND OTHER INDICATORS, ACCORDING TO RESULTS FROM THE NATIONAL ASSOCIATION OF HOMEBUILDERS (NAHB) RESEARCH CENTER'S ANNUAL BUILDER PRACTICES SURVEY, PROVE THE RESIDENTIAL MARKET SHARE OF STEEL FRAMING CONTINUES TO BE ON THE RISE AND IS RE-ESTABLISHING A STRONG FORWARD MOMENTUM.

Tons of Cold-Formed Steel

Used in US Residential Construction - 2005



Steel Framing Alliance
Steel The Better Builder

Meanwhile, the total market share improved from 1.12 to 1.18 percent, using the three-year average, while the year-to-year increase climbed to 1.35 percent over 1.15 percent in 2004. Although the single-family share of the market stayed at .81 percent, total shipments actually benefited from this ability to retain market position due to the record number of single family housing starts – totaling 1,626,500 in 2005. Shipments to the multi-family segment continued to climb last year despite a modest fall-off in the number of starts, which again demonstrates the growing strength that steel framing has in that portion of the market.

Historically, the commercial market has been the “bread and butter” for the steel framing industry, while the residential market is far more fragmented with the average builder building 27 houses per year. There is huge growth potential in the residential market, but some of the complex barriers such as codes and standards, distribution and the learning curve for skilled designers and installers make entering the

housing market more difficult.

Still, the Steel Framing Alliance has been very busy this year to continue working toward removing some of these barriers, and has made a lot of progress in the areas of training and education, supporting development of codes and standards, research and development, and marketing and promotion.

According to Tom Porter, executive vice president of CEMCO, the Steel Framing Alliance's (SFA) efforts and initiatives on behalf of its members are paying off. “We're making a lot of good in-roads,” Mr. Porter said. “We still have a long way to go, but the Steel Framing Alliance is attacking from all sides. CEMCO, California Expanded Metal Company, is a California-based manufacturer of steel framing and metal lath systems.

Increased collaboration between SFA and the Steel Stud Manufacturer's Association

(SSMA), Mr. Porter

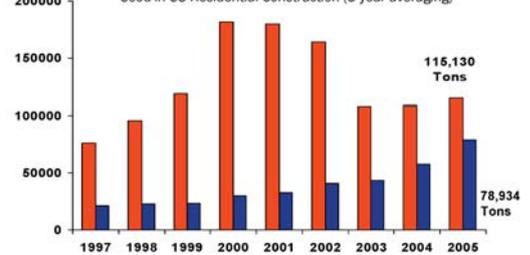
pointed out, is also making a difference. “Now that SFA and SSMA are collaborating more closely, projects are going a lot faster and funding is getting done.”

In other market share numbers, walls continue to represent the most commonly used steel framing application as total share increased from 3 percent to 3.23 percent. Furthermore, walls in the multi-family segment grew last year from 6.52 percent to 9.35 percent, helped by a jump in the use of steel framing for interior walls from 11.2 percent to 16.5 percent in 2005.

The Research Center has been collecting this kind of data since 1995, says Ed Hutson, head of the Research Center's market share data. “Each year, we talk to

Single Family and Multi-Family Construction

Shipments of Cold-Formed Steel Framing Used in US Residential Construction (3-year averaging)



Steel Framing Alliance
Steel The Better Builder

more than 2,000 homebuilders and we ask them the same questions so that we can get a clear picture of the materials they are using,” Hutson said.

Also in 2005, shipments of steel studs in both the U.S. and Canadian commercial and residential markets saw a modest increase with 2,426,047 tons shipped. And shipments for 2006 through June are already on course to increase over 2005 numbers with 1,261,016 tons shipped so far.

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FEATURING FLEX-C ARCH

Another of Flex-Ability Concepts' innovative products. Creating high quality arches is a snap with Flex-C Arch. Use it to build window, doorway, pass-through arches and more. Find out for yourself how easy it can be to build round, oval and even asymmetrical arch designs.

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FLEX-ABILITY CONCEPTS

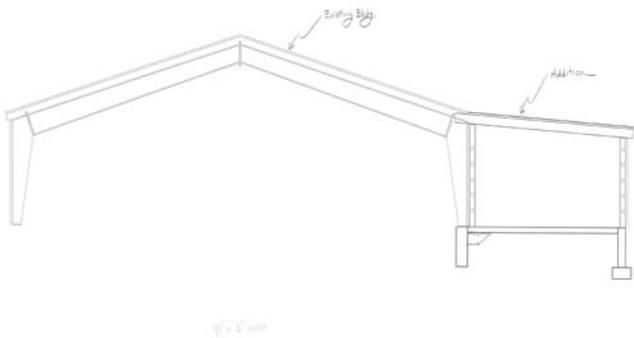
Tel 405.996.5343 E-mail info@flexc.com or visit flexc.com

Circle #9

FROM THE FORUM

I am working on preliminary ideas for adding a 14ft wide addition onto the side of an existing metal building. After looking through the SSMA details, I did not see any details for framing a metal stud roof with a 2 on 12 slope or a slope along those lines. The addition would have a single slope roof. I was just wondering if this is a common practice and if there are any details available for this.

I have attached a preliminary sketch.

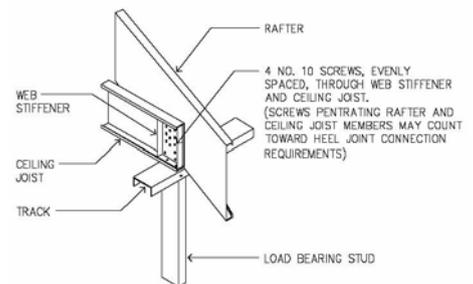
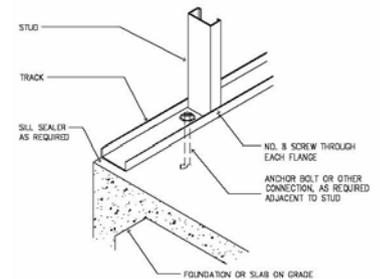
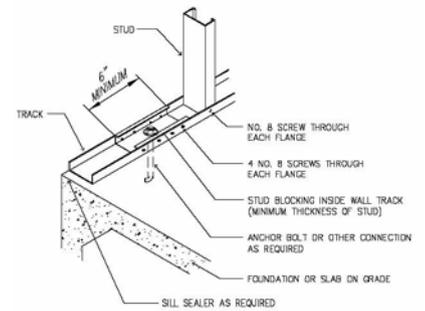
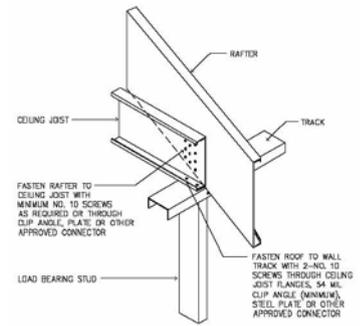


This is a common application for Cold-Formed Steel framing, and there are some details for the connections; but not specifically for the 2:12 sloped rafter bearing on the top of wall. Following are a couple of ways to do this:

Using a web-to-web connection, as shown in the attached photos, will work and provide a positive uplift connection. Note that headers cannot be at the top of the wall in this configuration; they must be low enough to not interfere with the rafter. Note that installers can use a strongback on the inside face of the wall to temporarily support and align the studs and the rafters.

Using a traditional top plate, and using a clip angle to act as both the rafter support and a web stiffener. It is an engineering judgment issue on what the bearing width is when the sloping joist only bears on part of the top track; but with a thick enough clip, or a stiffened clip, this may not be an issue. Note that in both cases, the rafters must align with studs.

For the wall framing to foundation connections, several anchor and fastener manufacturers have some details; I have included some from the "Standard for Cold-Formed Steel Framing - Prescriptive Method" for your use. These are also available in electronic format from the Cold-Formed Steel Engineers Institute and the Steel Framing Alliance at www.cfsei.com or www.steelframing.org. CFSEI and SFA members have access to free downloads of these details; others may purchase them for a nominal fee.



Don Allen P.E.,
Steel Framing Alliance
 director of engineering and
 LEED 2.0 accredited
 professional.



ASK YOUR QUESTION!

LOG ON ONTO THE FORUM AT
www.steelframingalliance.com
 OR CALL THE STEEL HOTLINE
 AT (800) 79-STEEL.

MEET TODD SETTER, WEST COAST TECHNICAL FIELD REPRESENTATIVE

SINCE SIGNING ON AS THE STEEL FRAMING ALLIANCE'S (SFA) TECHNICAL FIELD REPRESENTATIVE (TFR) FOR THE WEST COAST IN JUNE, TODD SETTER HAS FOCUSED ON DOING A MARKET ANALYSIS, MEETING WITH SFA MEMBER COMPANIES TO BETTER UNDERSTAND HOW THEIR BUSINESSES WORK. THIS HAS ALSO INCLUDED THE DEVELOPMENT OF A WOOD VS. STEEL COST ANALYSIS ON A MID-RISE STRUCTURE AND A TYPICAL TWO STORY HOME TO HELP DETERMINE STEEL'S COMPETITIVE POSITION, AS WELL AS WORKING WITH CURRENT AND PAST COLD-FORMED STEEL USERS TO DEVELOP AN UNDERSTANDING OF HOW BUILDING WITH STEEL WORKS FOR THEM AND WHAT, IF ANY, BARRIERS EXIST.

In addition to single-family homes, a key focus for his efforts is low-rise, multi-family condominiums. Because of dense land issues, most large builders Todd has met with are building these structures. "I'd say about 25 percent of their (large builder) portfolios include low-rise, multi-family units," Todd said. "To get into a true single family home is so expensive."

Todd has already received an enthusiastic reception in his market, especially since it has been so long since California has had a local representative to go to for any challenges or issues. "It's been several years since the Steel Framing Alliance has had a staff member located in, and focused on, the California market," Bill Kraft, the SFA's director of regional operations, said. "Todd's focus is business development and his activities will directly benefit our member companies there."

Scott Shaddix, of Nicholas Lane Contractors in Anaheim, Calif., agrees having a TFR is already helping the steel industry in California because it has pro-

vided a much needed local connection. "We always had people in the east, but it was very difficult without having a local person here," Mr. Shaddix said. In one important construction project, Mr. Shaddix's team is building with steel studs a housing project for the University of California in San Diego. "The actual university personnel that inspect and maintain student housing have been so impressed with steel framing that they want to build the rest of their housing facilities with steel over the next 10 years."

Since the decision to use steel framing requires the support of others in California's university system, the U.C. San Diego staff will need the necessary technical information about the benefits of using steel that the TFR is in a unique position to provide. "Being able to have a technical representative right there to address their issues, meet their needs, give them first-hand technical information, is huge. I can't even quantify how huge that is," Mr. Shaddix said.

Once the competitive assessments and territory plans are in place, the next focus for Todd will be on recruiting builders who will convert to steel framing. And as he gears up to begin the sales process, he is optimistic and eager to get started. "What I have seen so far is that everyone in the steel industry is interested in furthering the residential cause (building homes with steel), from folks already working for the SFA to those currently involved in the steel industry," Todd said.

With 17 years in the construction industry, Todd brings extensive sales experience

to his new position. Most recently, as the director of Sales and Marketing at Ginger Precast Designs in Riverside, Calif., Todd helped design and develop products to diversify the client base, and also elevated the client base to the exclusivity level with five of the top 10 homebuilders.

As a principal and consultant for Pacesetter Consulting Group in Laguna Niquel, Calif., he assisted in the development, coordination, and practice of the Team Steel Concept. In addition to educating builders and trades on changing areas when using steel, he also performed an analysis of different builders' use of steel and deciding factors. During his 11 years with Andersen Windows, Inc. in Bayport, Minn., Todd conducted education seminars for builder professionals and architects, managed distributor representatives through the selling process to a new market segment, and directed and coordinated all technical and service oriented product issues in the California area. He was also a two-year recipient of the Presidential Sales Award.

Todd earned a bachelor of science degree in 1988 from St. John University in Collegeville, Minn., and holds a certificate of marketing for the residential builder (MIRM) from the University of California.

To learn more about the TFR program, contact Bill Kraft, Director of Regional Operations, at bkraft@steelframing.org or 866-303-4906.



MHD

EDUCATION AND TRAINING



BY **MARIBETH RIZZUTO**, DIRECTOR OF
TRAINING AND EDUCATION,
STEEL FRAMING ALLIANCE

STEEL - DOING IT RIGHT!

If you have not yet had the opportunity to sign up for a STEEL - Doing It Right seminar, mark your calendars for Feb. 1-3, 2007. The next program will take place in San Antonio, TX.

STEEL - Doing It Right is an education program organized by the Association of Wall and Ceiling Industry (AWCI) and the Steel Framing Alliance (SFA). The seminar covers the essential knowledge and techniques for the correct installation of cold-formed steel for most load-bearing and non-load bearing projects. It also covers the latest advancements to speed installation.

To get the most out of this course, attendees should be familiar with cold-formed steel construction. The course begins with an overview of the steel framing industry and materials, including identifying common uses, field applications, nomenclature, the use of cold-formed steel framing in building codes and environmental attributes. This program will help contractors understand the latest advancements for structural framing with cold-formed steel. Participants will learn the proper methods and industry accepted practices used for cold-formed steel construction. Course content includes details on various tool selection, fasteners, bearing and non-bearing walls, roof trusses, floor joists, ordering and delivery, cut lists, green building attributes and more.

Consisting of two and a half days of classroom instruction, STEEL - Doing It Right is given in a format that promotes interaction between the participants and the professional engineer instructors. In addition to benefiting from the instruction, participants will learn the theory behind

the process and gain contacts and information from networking. In addition, discussion of recent trends and the latest products are covered in question-and-answer periods.

STEEL - Doing It Right is based on industry recognized documents and carefully reviewed by industry experts in the cold-formed steel industry. At the end of this seminar participants will have:

- A competitive advantage
- Increased production
- Better estimating
- Better project management
- Better quality control
- Fewer surprises

Members of AWCI and members of SFA are offered reduced registration fees as a benefit of membership. The same membership rates are extended to architects, specifiers, building inspectors and code officials. Space is limited. Register early as applications are accepted on a first come basis. A confirmation notice with seminar schedule, meeting location specifics and other relevant information will be sent prior to meeting date. For more information, call AWCI at (703) 534-8300 or SFA (202) 785-2022. Or, visit www.steel Framing.org today!

INTERNATIONAL BUILDERS' SHOW® 2007!

As the nation's premier event for the housing industry, the International Builders' Show® (IBS) scheduled for Feb. 7-10, 2007 is the largest annual light construction show in the world and features the latest and most advanced building products and services ever assembled. In an effort to help represent the steel industry, the SFA has arranged for an exclusive area for members. The area "Steel Central" will house 10 SFA member companies along with the Alliance and be marketed to IBS attendees through a special pre-convention coupon booklet and on-site signage.

For the third year in a row, IBS will take place at the Orange County Convention Center in Orlando, Fla. With more than a million-and-a-half square feet of exhibit space - the equivalent of 40 football fields - the show is expected to attract as many as 100,000 people to the Sunshine State. The National Association of Home Builders (NAHB) annual convention will boast a record 1,600+ exhibitors. On display will be the most cutting-edge designs, technologies, products and services available to the home building community. The housing industry's largest new-product showcase, IBS provides members of the home building industry with an unparalleled opportunity to examine and select the products that will set their new homes apart from the competition.

Attendees can check out all of the latest innovations with hands-on demonstrations and working models in more than 300 building industry categories spanning every niche of the residential and light commercial construction fields. Additional draws include more than 200 educational seminars to help builders and their affiliates expand their professional knowledge, explore new opportunities and grow their businesses.

Show Hours are Feb. 7-9 from 9:30 a.m. to 5 p.m. and Feb. 10 from 9 a.m. to 3 p.m.

The 2006 International Builders' Show is not open to the general public. SFA members and home builders and their affiliates throughout the housing trades are welcome to register by visiting www.BuildersShow.com.

THE FORMULA FOR SUCCESS STEEL FRAMING SEMINAR

Held during the IBS Steel Seminar, the Formula for Success with Steel Framing Seminar will take place on Friday, Feb. 9, 2007, from 1:30 to 3 p.m. Cold-formed steel is gaining market share across the country. Find out how to design, specify, and construct residential structures with steel and how to market the increased durability. For more information and to sign up, contact Maribeth Rizzuto at (412) 521-5210 or MSRizzuto@aol.com.

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LOCAL ALLIANCE UPDATES

CALIFORNIA STEEL FRAMING ALLIANCE LOU ZYLSTRA

The California Steel Framing Alliance (CASFA) has been hard at work meeting with industry leaders and to expand its "Outreach Program".

They have also been involved with the Builders Industry Association (BIA)'s Builders Industry Technical Academy (BITA) in training area high school students about cold-formed steel building techniques. CASFA, which provides training modules and the curriculum for the program, is currently working with three high schools on a fundraising program to provide three 20x24 cold-formed steel structures for the students to put together and take apart. So far, they have received material commitments from CEMCO, Alpine Truss Steel, NUCON-STEEL™, Great Western Building Materials, and DECRA Roofing Systems. In addition, CASFA board members have been volunteering their time as technical advisors and instructors of the developed curriculum. The active board members include: Tom Moore, T.M. Construction, Mike Carpenter, Carpenter Designs; Don Wheeler, Wheeler Construction; and Wally Stafford, T.M. Construction. Mr. Stafford is taking the lead for the BIA-BITA program with his experience in the apprentice program for the Union training programs.

BITA's comprehensive four-year construction program, spearheaded by Lawrence Jones of the BIA and John Puckett of Katella High School, outlines a mission to increase students' awareness of the diverse career paths within the construction industry. It was developed to produce skilled professionals in various construction trades so that they are qualified to enter the home-building workforce. BITA also introduces participants to the neces-



sary skills, training, knowledge and contact with industry professionals required to pursue careers in the construction industry.

NEW BOARD OF DIRECTORS

During the recent CASFA annual meeting, new board members were seated the CASFA Board of Directors. New to the Board and to CASFA are Jed Donahue of The Steel Network and Mike Carpenter of Carpenter Designs. Mr. Carpenter also serves as architect liaison for the outreach program designed to educate and train architects on the latest developments in cold-formed steel.

Following is the current roster of Board of Directors:

Officers:

President – Lou Zylstra,
Zylstra & Associates Engineering, Inc.

1st Vice President – Jim Phibbs,
Great Western Building Materials

2nd Vice President – Matt Macarewich,
Matt Macarewich & Associates

Treasurer – Don Wheeler,
Wheeler Construction

Directors:

Mike Carpenter, Carpenter Designs

Jed Donahue, The Steel Network, Inc.

David Garza, Wei Pei Structural Engineers

Tom Moore, T.M. Construction

Todd Setter, Steel Framing Alliance

Wally Stafford, T.M. Construction

Bob Wilson, Nordic Structures

CALIFORNIA FORUM 2007 JUNE 15TH AND 16TH!

Save a spot on your calendars for CASFA's California Forum 2007 scheduled for June 15 and 16 at the Disneyland Resort Park. Visit www.casfa.org for more information.

HAWAII PACIFIC STEEL FRAMING ALLIANCE MARDIE TORRES



Hawaii Pacific
Steel Framing
Alliance, Inc.

2007 PACIFIC RIM

Join United States and world leaders from the steel industry for the 2007 Pacific Rim Steel Framing Conference (PACRIM '07), March 14-17, 2007, at the Hilton Waikiki Prince Kuhio in sunny Waikiki, Hawaii. Sponsored by the Hawaii Pacific Steel Framing Alliance, the fifth PACRIM conference will also be held in conjunction with the Steel Framing Alliance's annual Spring Forum.

In Hawaii, steel framing construction represents more than 70 percent of all new residential construction. "Most people in Hawaii come to expect steel framing in their homes and in construction, and the military demands it for its durability," Tim Waite, president of the Hawaii Chapter of the Cold-Formed Steel Engineers Institute, said. "See where steel framing predominates. Hawaii is a living laboratory (for steel framing), and you can come and see and shorten the learning curve."

As the torrid pace of homebuilding in recent years slows down, now is the time for builders to re-evaluate their current home products. How can builders differentiate their homes as the consumer

**LOCAL ALLIANCE UPDATES...
CONTINUED FROM PAGE 38**

grows more selective? How can their homes be marketed more effectively? Get your products into the hands of this influential group of decision makers, and sign up to attend PACRIM 2007 today!

Here are some of the highlights of the 5th PACRIM conference:

- Held in conjunction with Spring Forum of Steel Framing Alliance (SFA). This will attract national industry executives and SFA directors. Network with the national steel framing industry!

- The Cold-Formed Steel Engineers Institute (formerly LGSEA) will hold its national meeting during the conference. Leading experts in cold-formed steel engineering and design, as well as cutting-edge researchers will be in attendance.

- We are actively recruiting top executives from national homebuilders to educate them on the advantages of steel framing. Targeted companies include: Centex Homes, D.R. Horton, KB Homes, Lennar Family of Builders, and Pulte Homes.

- A wide variety of seminar tracks to attract the building designers, contractors, and homebuilders. Speakers from around the world will address topics on economics, home forecasts, architectural and engineering issues, and new construction tools and technologies.

- A hands-on steel framing curriculum to supplement the seminars plus a guided jobsite tour.

To register and for more information, visit www.hawaiisteel.com or call (808) 485-1400.

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LGSEA CHANGES NAME TO CFSEI: COLD-FORMED STEEL ENGINEERS INSTITUTE

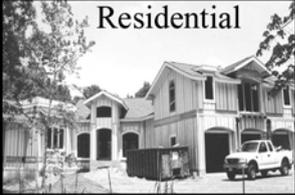
THE STEEL FRAMING ALLIANCE (SFA) OPERATING TEAM VOTED THIS SUMMER TO APPROVE A RECOMMENDED NAME CHANGE FOR THE FORMER LGSEA. THE GROUP, MADE UP PRIMARILY OF STRUCTURAL ENGINEERS, IS NOW KNOWN AS THE COLD-FORMED STEEL ENGINEERS INSTITUTE, OR CFSEI (PRONOUNCED CEFF-SEE.) "THE NEW NAME BETTER REFLECTS OUR MISSION, VISION, AND MEMBERSHIP MAKEUP," SAID BEN SCHAFER, PH.D., PRESIDENT OF THE CFSEI AND ASSISTANT PROFESSOR AT JOHNS HOPKINS UNIVERSITY.

As a part of the change, the SFA Operating Team approved an update to the Operating Procedures for the CFSEI. In addition to expanding the membership to include active non-engineers and better incorporating the desires of chapters by including a board-level Chapter Liaison, the updates included bringing up to date the mission of the organization and adding a vision for the group to the

Operating Procedures. These changes are the direct result of a board retreat held in Baltimore, Md., in August. Hosted by the Johns Hopkins University School of Civil Engineering, and facilitated by Liza Bowles of Newport Partners, the retreat focused on the strengths and opportunities for the CFSEI. "The board saw an opportunity to make some very minor changes to the organization that would allow them to better serve their members" said CFSEI Secretary Don Allen. "Practicing engineers are in dire need of a better understanding of the design process with CFS (cold-formed steel). There have been some logistical difficulties with the former organization, as well as some changes with implementation and staffing. This will go a long way toward better serving the engineering community."

According to Schafer, "Any change in the name of an organization is difficult and the Board underwent significant discussion on this item. It had become

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impossible to satisfy all constituents by leaving the name alone, while at the same time no consensus existed for changing to any particular new name." Ultimately, the Board unanimously chose to evolve the current name.

"The new name reflects a direct evolution of the organization. Replacing the phrase 'Light Gauge' with 'Cold-Formed' reflects the modern language of standards, technical documentation, and the technical engineering literature and brings the engineering group in closer alignment with partner organizations. Replacing the word 'Association' with 'Institute' reflects the changed nature of the organization since aligning with the Steel Framing Alliance," Schafer said. Since the LGSEA no longer operated as a stand-alone association, the Board felt it was somewhat disingenuous to keep the term "Association" in the name. The term "Institute" best denotes the organization's status and intended vision. Branding, marketing, etc. of the new name are captured as items in the CFSEI operating plan, also developed by the board during and after the August retreat.

Even before the name change, several aspects of the organizational changes have been evident. Spearheaded by LGSEA Vice President Jeff Ellis and staff Webmaster Rose Kuria, the updated web page has made it easier and faster for engineers to find the information they need. And new in September, the "engineer finder" function on the page is now up and running, as well as the Forum, where technical questions and answers may be supplied by members and non-members alike.

LGSEA materials will still be available both online and by calling 866-GO LGSEA toll-free. The current web page is linked to both www.lgsea.com and www.cfsei.com. As the transition is made over the next few weeks and months, the CFSEI logo will begin to appear on new documents and publications as they go through the technical review process. Members will be apprised of the status of the transition both online and in electronic and paper news updates and technical documents. According to Allen, "this will be the last of the LGSEA newsletters as we know it. The

transition is being made to a more frequent, less in-depth electronic version, with technical exchange articles still being issued on a regular basis, but separate from a newsletter insert." Note that all articles in this newsletter refer to the organization as CFSEI; future issues, articles, and web documents will continue to reflect the transition to CFSEI. Members interested in the transition can direct questions to either the CFSEI headquarters office at 202-785-2022, or to CFSEI Secretary Don Allen at dallen@steelframing.org.

CFSEI INITIATES FLORIDA CHAPTER

The Florida chapter of the CFSEI held their very first planning and organizational meeting this summer in Orlando. Representatives from Alpine/TrusSteel, the Light Gauge Steel Engineering Group, Scosta Corporation, Aegis Metal Framing, the American Iron and Steel Institute, the Steel Framing Alliance, and other interested parties attended, and worked out a plan for recruiting members, volunteers, and starting quarterly technical meetings last month.

The first organizational meeting took place in early October in conjunction with METALCON International at the Tampa Convention Center, immediately after the CFSEI technical meetings. CFSEI Board Member Dave Dunbar spearheaded this effort and also chaired the meeting.

The first Florida Chapter technical presentation meeting took place at the end of October at the Rosen Center Hotel in Orlando. Eric Jacobson of Consolidated Systems, Inc. and Harry Collins of Collins Consultants, Inc. both gave a presentation on the use of steel framing with steel deck systems: for both roof and floor construction; composite and non-composite. This informative presentation provided one professional development hour for registered engineers. CFSEI president Ben Schafer and Secretary and Staff member Don Allen were on hand to say a few words about the new organization and the future of steel framing in Florida.

For more information, contact CFSEI Secretary Don Allen at dallen@steelframing.org, or Board representative David Dunbar at dunbar@trussteel.net.

TOP TRACK LOAD DISTRIBUTION DATA PRESENTED BY IAN ROBERTSON TO HAWAII CFSEI CHAPTER

In early August, Dr. Ian Robertson presented his research on the load bearing built-up top tracks used as a load distribution member on many cold-formed steel framed projects. Dr. Robertson is a Professor at the Department of Civil and Environmental Engineering,

University of Hawaii at Manoa. His research included combinations of stud and track, with some of the stud members punched, and some unpunched. He showed the capacities of the different systems with common types of loading. These top plate members are often used where it is inconvenient or impractical to provide alignment framing between wall studs and roof or floor members bearing above.

By using built-up sections of common stud and track sections already used in the field, the use of alignment framing and in some cases headers may be reduced. For additional information on this presentation and Dr. Robertson's research, contact Mardie Torres at

mtorres@hawaiiisteel.com.

ICC EVALUATION SERVICE INDUSTRY ADVISORY COMMITTEE HOLDS FIRST MEETING; CFSEI MEMBER ELECTED PRESIDENT

On September 19, the International Code Council Evaluation Service (ICC ES) held the first meeting of their Advisory Committee. Nearly all of the 20 committee members attended, with several ICC ES staff and guests also on hand. CFSEI Secretary Don Allen attended, on behalf of the Steel Stud Manufacturers Association and as a representative

of the steel framing industry. The other CFSEI member on the committee, Mark Crawford of Simpson Strong-Tie, was elected as chairman of the group as the first order of business, based on a nomination by Allen. Crawford stated, "I have a significant

interest in the Evaluation Service's performance, and I am pretty familiar with their process and people. I am pleased at the opportunity to serve this group." For additional information on the progress of the committee, contact Don Allen at dallen@lgsea.com.