

CSI Houston Chapter
The Construction Specifications Institute

May 2013

May 20th meeting:

PLACE: H.E.S.S. Building
5430 Westheimer

TIME:

5:30 P.M. (Registration and mixer)

6:00 P.M. (Evening Meal and Meeting)

COST:

\$35.00 Per Person; Gratis to CSI members.

RESERVATIONS: Go to:
<http://www.csihouston.org>

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http://www.csihouston.org	

May CSI Houston Chapter Program “LEED v4 Certification”

CSI Houston Chapter's May Program on May 20, 2013, will return to the H.E.S.S. Club for a presentation by Mr. Tim Murray, Sustainability Director for Apollo BBC, on the new LEED certification programs. LEED v4 incorporates a number of changes that will keep these programs at the forefront of high performance building standards. The new Material and Resources credits will transform product information and transparency. Soon, commonplace requests will include Environmental Product Declarations, Lacey Act compliance and Material Ingredient Disclosures. These new certification programs are expected to be implemented during the last half of 2013.

Tim Murray has been involved in developing the new certification programs to be published by the USGBC later this year and has made presentations to various local groups over the last 18 months about how the new program is being developed. Mr. Murray served since 2006 as the Chair of the Green Building Sub-Committee for the Greater Houston Partnership. He has also served on the national USGBC Chapter Steering Committee and as Liaison to the LEED Steering Committee.

If you want to be prepared for a new level of performance, you won't want to miss Mr. Murray's presentation to our chapter.

Coming in June ...

The CSI Houston Chapter will be hosting our Annual Awards Dinner. Special awards, honors, tributes, and thank you's will be given out at what should be one of the highlights of the CSI Houston Chapter year.

New officers and Committee Chairs will be introduced and installed at this meeting. Boral Building Products has graciously provided a Duck/Goose Hunt trip as a Door Prize for one lucky attendee.

Mark your calendars and celebrate all of the accomplishments of the Houston Chapter this past year.

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Director 1 Tom Atwell, CSI CDT, AIA

Director 2 Al Pasek, CSI, CCPR

Director 3 Don Ude, CSI

CSI SOUTH CENTRAL REGION (<http://www.scr-csi.org>) / INSTITUTE LEADERS (<http://www.csinet.org>)

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May 2013

President's Message

**by Holly A. Jordan, CSI, CCS, LEED AP
BD+C, SCIP
President, CSI Houston Chapter
President-Elect, CSI South Central Region**

In April, several members of the Houston Chapter went to the Region Conference in San Antonio. It is very beneficial for members of different Chapters to meet with each other, network, discuss new ideas, and learn about what other Chapters are doing. On Thursday, participants were able to attend a skeet shooting event. Our own Bob Cook brought home the trophy from the event. On Friday, attendees were able to attend educational and informational sessions, peruse manufacturer tabletops, and attend an event celebrating the 50th Anniversary of the San Antonio Chapter. Saturday morning started with the Region events. Presentations were given from the Institute President-Elect about the direction CSI is headed, the President of the Region about Region activities in the last year, and the President-Elect of the Region about the direction that the Region is headed in the next year. Saturday evening ended with a River Walk dinner cruise. The Region Conference ended on Sunday afternoon with the Board meeting. Meeting minutes will be made available on the Region website to every member.



Conferences and Planning Meetings are more than just opportunities to attend educational sessions. They are a time to learn and grow not only as an individual, but as a Chapter. A member can only get from an organization what they put into it. Many times, conversations that happen with a person met outside on a bench in the hallway in between sessions can be more beneficial and motivational than those inside a class, seminar, or educational session. Bouncing ideas off of one another, getting to know one another, learning who your counterpart in a Chapter is can be so beneficial. It is important to take all of the enthusiasm and ideas gathered at a Conference back to a Chapter

and keep up the momentum.

Many thanks to Texrite for the April tour of their facilities. Members received an informational tour, a brief educational session, and a wonderful dinner from our Texrite hosts.

Remember, our May meeting will be moved back a week because of Memorial Day to May 20th. Our guest speaker will be Tim Murray with Apollo BBC. He will be speaking about the newest LEED. I am sure that this will be a well attended meeting because of the great interest in LEED and environmental issues in the Architectural, Specification, and Construction community.

June will round out and finish my presidency with our Annual Awards Banquet. I hope to make this meeting special for everyone. We will have a door prize of a Duck/Goose hunt provided special from Boral Building Products along with other door prizes, thank you's, awards, gifts, etc.

2013 Brian Harrington Golf Classic

By Joey Penna, CSI, CDT, LEED AP



Save the Date: The 2013 CSI Brian Harrington Golf Classic will be held Monday, October 21, 2013.

Golf Course: Falcon Point Golf Club, Katy, TX

Entry Forms & Sponsorship Forms: Go to the CSI Houston Chapter website at <http://www.csihouston.org>. Forms will be available shortly for you to attend and support the CSI Houston Golf Classic.

We hope to see you there!

CSI CDT Prep Classes for Spring 2013

by Holly A. Jordan, CSI, CCS, LEED AP BD+C,
SCIP, President CSI Houston Chapter

In preparation for the CSI CDT Exam during the month of April 2013, CSI-Houston will once again be sponsoring a CDT Prep Class this spring. The eleven week course is scheduled to begin on Thursday, January 17, 2013 at 6:00pm. The class is scheduled for two hours every Thursday evening, concluding on the week of March 25, 2013. Classes are scheduled to be held at Building Exterior Solutions, LLC; 6975 Portwest Dr., Suite 100; Houston, TX 77024

This is conveniently located near the intersection of the Katy Freeway and the West Loop. The cost for students attending will be \$75.00 for CSI members and \$100.00 for non-CSI members. Checks must be made payable to 'CSI-Houston.' In addition, CSI -Houston is also offering to order all study materials for prospective students as a group. This will enable all who order this way to receive a "group discount" and save some money on study materials. Please inform us upon sign-up that you wish to order your materials with the group.

New for this session is that the final class will be held on Monday March 25, 2013 at 4:00pm. This will be just before our monthly CSI-Houston Dinner. All prospective students are invited to join us for dinner without charge that evening. Individuals that would like to sign-up for the CDT Prep Class should contact the local Certifications Chairman, Tim Wilson. His contact information is Cell (832) 289-6765; Email twilson@weatherizationpartners.com

Houston Code News and Events

By Di Ann Reid, CSI, CCS, CCCA, LEED AP

New Electrical Code - Effective 09/01/2011.

On August 10, City Council approved the adoption of the 2011 National Electrical Code and local amendments.

New Commercial Energy Codes - Effective 09/02/2011.

September 2, 2011, commercial buildings and structures shall comply with the 2009 IECC or 2007 ASHRAE 90.1, pursuant to Section 19.53 of Chapter 34, Texas Administrative Code. In accordance with this provision and the rules thereto, the City has reviewed the codes and has proposed amendments for review by the Energy Systems Laboratory.

Please visit the City of Houston Form & Publications Page at <http://www.houstonpermittingcenter.org/code-enforcement/code-updates.html> to access the new Commercial Energy Codes

New Construction Codes—Effective 12/31/10.

On November 3rd, City Council approved the 2006 Code Package to adopt updated Construction Codes. The new amendments are available at our Forms & Publications page.

Texas Adopts New Energy Code 2009 IECC effective April 1st, 2011. The major points to be guided by for the building envelope are:

- All commercial projects will need insulated glass. No more monolithic exceptions for small window to wall ratios.
- All commercial projects will need to exhibit an SHGC (Solar Heat Gain Coefficient) of .25 or less. This is a major revision and improvement to save energy for our building owners. There are exceptions for projection factors i.e. shading.

As published in the Texas Register today: ADOPTED RULES June 4, 2010 35 TexReg 4727

Current codes in the City of Houston include:

- Building Code: 2006 IBC with Houston Amendments.
- Residential Code: 2006 IRC with Houston Amendments.
- Electrical Code: 2011 NEC with Houston Amendments—1st Printing.
- Mechanical Code: 2006 UMC with Houston Amendments.
- Plumbing Code: 2006 UPC with Houston Amendments.
- Fire Code: 2006 International Fire Code



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FEATURE YOUR PRODUCTS WITH A TABLE TOP DISPLAY

At each monthly meeting, the Chapter encourages Industry Members to provide a table top display of their products and services for the inspection and education of those attending the meeting.

The table top display is also encouraged to be presented during the social hour and after the program for any questions by attendees.

The presentation fee for this time is \$200 for members and \$250 for non-members, or free with a Golf Sponsor-

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Contact Don Smith at (713) 688-0092 or don.smith315@sbdglobal.net for more information.

CSI Houston Chapter Board Meeting Minutes

Location: HESS Building

5430 Westheimer Rd., Houston, TX

February 25, 2013

Present: Betsy Finch, Bill Fairbanks, Don Smith, Don Ude, Don Vernon, Doug Frank, Holly Jordan, Joey Penna, Neil Byrne, Robert Byrne, Tom Atwell

President Holly Jordan called the meeting to order at 4:15 p.m.

The January 2013 Board Meeting Minutes were approved.

REPORTS

Member Services: Mark Koehler

Programs: J. Peter Jordan

The February program will be on fenestration and will be presented by Greg Roberts, George Wilson and Gary Patterson. Alex Bernard will be in charge of the March program and Pat McIntosh is working on the April program.

Membership: Joey Penna

Joey reported that membership is currently at one hundred and seventy one members, including four new members. He also reported he was asked to attend the next CSI regional meeting to discuss attracting new members and keeping current members within the local chapters.

Awards: Amy Salmeron

Holly reported that she met with Amy and Robert and that Amy is working on the awards and she will be requesting information from Board members. Bill Fairbanks commented that now is the time to start thinking about prospects for the Craftsman Award. Holly asked the Board members to think about this.

Finance/Administration: Neil Byrne

Neil reported he is working with an insurance agent to obtain information regarding director and officer insurance coverage.

Treasurer's Report: Chuck Vojtech

Neil reported the revenue from the table top displays and sponsor tables at the January chapter meeting brought in more revenue than expected. He stated the chapter is currently in a good financial position.

Table Top Display: Amy Peevey

No report.

Personal/Professional Development: Doug Frank/Di Ann Reid

No report.

Publications and Public Services: Don Smith

Golf Tournament: Tom Atwell

Tom reported the golf committee is scheduled to meet on March 1st to discuss ideas for new sponsorships and meeting on February 26th with Bob Cook concerning items for the golf goody bags. He also reported Falcon Point needs a down payment. Joey will handle this with Chuck.

Spec.tectonics: Don Smith

Don reported the February newsletter issue was posted to the website and his target date to post the March issue is March 8th.

Electronic Communications:

Holly reported Logan Vits is now in charge of Constant Con-

tact and sending meeting information out to the members. Holly also reported she has some changes to make to the website and that she will meet with Don to discuss the changes and any necessary updates.

Public Relations: Don Vernon

Don discussed with the Board possible dates for a Product Show/Vendor Night, table tops for vendors, panel discussions, location to hold the show. He stated he would check with AIA about the available dates for the AIA office downtown and if they would be interested in a joint venture with CSI for a Product Show/Vendor Night. Neil mentioned the chapter has some money that could be used to partner up with AIA and do something jointly.

Professional Development: Logan Vits

Continuing Education:

No report.

Academic Affairs:

No report.

Certification: Tim Wilson

No report.

Technical Committee:

No report.

New Business:

Holly mentioned she would like to have a key note speaker at the June chapter meeting and asked the Board members to think of possible candidates. Joey said he would check with Toastmasters and report back to the Board.

Foundation:

Holly discussed financial responsibility for student members attending the chapter meetings. She asked for guidelines as to who is supposed to pay for students; is it the responsibility of the chapter or the Foundation? Holly requested the Foundation members check into this and advise.

CSI Code of Conduct:

CSI Houston By-laws incorporate with a statement from the CSI Code of Conduct from Institute that applies to all members. CSI Houston Chapter Meetings are for Networking and Education. Members and/or guests who do not comply with the CSI Code of Conduct will be asked to leave. Further action may be taken on behalf of the CSI Houston Board. Members who arrive at Chapter Meetings and/or Events who are noticed to be inebriated will be asked to leave via cab or other arranged transportation. If such member is non-cooperative, the authorities will be notified. In addition, the HESS Club has been notified of the CSI policy and they additionally have their own policies to handle such situations. CSI Houston Board and Committee Chairs will not be held liable for individuals who choose to ignore the CSI Code of Conduct. Additionally, members are asked not to purchase alcoholic beverages for anyone who is not in the immediate presence of the HESS Club bartender. The HESS Club as well as CSI Houston reserves the right to refuse service to anyone.

Meeting adjourned at 5:25 p.m.

Betsy Finch, CSI, Chapter Secretary

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National Energy Code Impact on Gulf Coast Construction

By Donald F. Smith, Jr., CSI CCS RA LEED AP

I keep getting questions on use of air barriers versus air/water barriers here in the Houston area.

Let's discuss terminology first. An air barrier is vapor permeable, but blocks air movement. An air/water barrier is vapor and water impermeable.

Where you place a vapor barrier is a very complicated issue. The first things to consider is a project's geographic location and vapor drive. Generally, if your project is located within about 100 mile of the coast anywhere from the Carolinas to Brownsville it is considered tropical exposure primarily concerned with cooling degree days. In this situation you should be concerned with placing a non-permeable vapor barrier toward the predominately warm side of the construction which is the exterior. As you can see, once you move north of about Conroe in our area, your choice of location for the vapor barrier will be wrong part of the year. Then decisions on how the structure is occupied, exterior enclosure wall structure and material chosen to permit the wall to ventilate and dry out become important.

Think about what is going on in the wall of a typical Houston project sixty plus years ago before air conditioning was in wide use. Then, Houston construction had little or no insulation, and no vapor barrier in exterior enclosure walls. Exterior walls back then were designed to breath, both interior and exterior. Monumental buildings had thick masonry wall construction that was designed to shield the building interior from rapid temperature changes and dry out when fair weather returned. Comfort air conditioning consisted of natural ventilation or engineered ventilation consisting of rising warm air exhausted near the top of a structure drawing in cool outside air near the bottom, or forced mechanical ventilation, or a combination of these. Compared to today, energy was very inexpensive. The payback for insulation, insulated glass, and air/water barriers did not make economic sense then.

The National Energy Code requires an air/water barrier in our climate zone. We also have Code required insulation goals for our climate zone.

Today, during a typical cooling degree day, once you seal the exterior wall construction and add air-conditioning, things get complicated. The air-

conditioning system can be viewed as a pump of sorts. Warm humid air is recirculated through the A/C cooling coils, excess moisture in the air is condensed and runs down the condensate drain, cool air near 100 percent relative humidity exiting the cooling coil is mixed with return air from the room to raise the air temperature at the room air diffuser to about 68 degrees F and about 50 – 55 percent relative humidity. Any exterior wall construction that has a vapor permeable construction or air leakage, adds heat and humidity making the building less efficient. If you can control moisture entering the exterior building enclosure, the only things left are mechanical heat generating systems like motors, lighting, etc., and the people (building occupants) added heat and humidity. The exterior enclosure wall interior must be left vapor permeable to permit moisture trapped in the exterior enclosure walls to vent to the interior and be removed by the A/C system.

During a typical heating degree day today, things are also complicated. When it is cold outside, warm humid inside air can penetrate into the exterior enclosure walls and come in contact with materials that are at or below the inside air dew point. When this happens, condensation can occur. Fortunately we usually do not have prolonged cold weather here. As the exterior temperature rises above the inside air dew point, any condensed water in the wall will begin to evaporate and move inside. Choosing exterior enclosure wall materials that are not overly sensitive to moisture and vent to the interior of construction will prevent deterioration and mold in buildings in the Houston area.

Special occupancies beyond people loads require special studies. These occupancies include libraries, archival storage, museums, data processing facilities, cold storage facilities, natatoriums, high occupancy rooms, and similar facilities.

"If you don't know where you're going, you might wind up someplace else."

Yogi Berra

... Just my opinion,

Donald F. Smith, Jr., CSI, CCS, RA, LEED™ AP

CSI Houston Chapter Regional Conference Report

by Holly A. Jordan, CSI, CCS, LEED AP BD+C,
SCIP, President CSI Houston Chapter

Currently the Houston Chapter has 168 members.

The Houston Chapter has accomplished the following items in the last year:

Programs

- Emphasis on improving programs while de-emphasizing the traditional “manufacturer rep” AIA presentation type programs.
- January Program pulled in a record 135 attendees.

Membership

- CSI Houston Membership has grown and held steady.
- Membership Chair coordinated monthly list from institute of new members, expiring members, and dropped members.
- All were contacted via e-mail. Follow-up phone calls were made.
- Membership Chair put meeting notices in business journals and other organizational journals, contacted individuals from journals who were listed as receiving promotions or new jobs and invited them to CSI meetings.
- All visitors and new members are greeted by Membership Chair or designee.

Awards

- Coordinate more closely with Region and Institute as well as professional development coordinators in Houston.

Personal/Professional Development

- Forms developed for Board and Committee Chairs to track awards and offices
- Goals and accomplishments reported to President by Board and Committee Chairs

Finance/Admin

- Tax Exempt status re-instated
- Working budget established
- Mid-year budget evaluation
- Financial surplus achieved

Tabletops

- Tabletops marketed and confirmed
- Cross marketed CSI to local RCI members and

building envelop industry professionals

- Thirteen tabletop sponsors at January Chapter meeting

Golf Tournament

- Fiscally sound golf tournament
- Training and development of new golf committee

Quarterly Happy Hour

- Two successful Happy Hours with recruitment of several new members

Electronic Communications

- Monthly newsletter posted
- Newsletter re-design with new logo
- Website up and running
- Website re-design
- New email/meeting reminder communication system
- Chapter Twitter account set up
- Chapter Linked in account set up

Certification

- CDT Prep Class Fall 2012 with 10 Chapter member instructors and 8 attendees
- CDT Prep Class Spring 2013 with 10 Chapter member instructors and 13 attendees

Institute Report Presented at April 2013 CSI South Central Regional Conference By Dorothy Gumm Dennison, CSI CCS, HUB, WBE, CSI Institute Director

The Institute Board members had a face to face meeting in New Orleans Feb. 23-24. Had a webinar meeting March 21st, and will have another face to face meeting in Atlanta in June.

Many items in the planning and under discussion as always.

Director Gaines of the Awards Committee reported on the Outstanding Chapter awards program changes on submission date, data window and award date to change to 2013/2014 all due July 1, 2014 which would allow submissions of the previous ongoing year – this will all be finalized later.

CDT+G Program (government bodies certification program) is in the process of being formed – the committee will present a Business Plan for review. Much work yet to be done to get this implemented. But could be great potential for additional membership. (Continued on Page 10)

24/7; Déjà vu all over again!

By Sheldon Wolfe, RA, FCSI, CCS, CCCA, CSC



"Existing communication methods have done a good job of addressing most of the information exchange involved in construction. E-mail and electronic file transfer are commonly used between owner and architect, and between architect and consultants. One conspicuous oversight has been the contact between

the design professional's office and the contractor in the field.

"Several computer programs are now available to dramatically improve the exchange of information between office and field. This type of program is so powerful and compelling that it may well be considered the "killer app" for construction administration, just as CAD became a killer app for producing working drawings."

The above quotation is from introductory paragraphs to "[Killer Apps!](#)", an article that appeared in the February 1999 issue of the Construction Specifier, and in the December 1999 issue of Doors and Hardware Magazine.

If you read the article, you will see that much of what was needed to greatly improve communication between the office and the field was in place at that time: file sharing, collaborative markup of documents, remote viewing of the project site, and audio communication. So what went wrong? Why no killer app?

Looking back, it's clear that many obstacles prevented realization of the potential of the new technology. We're so accustomed to relatively high bandwidth now that what we had fifteen years ago seems primitive. In 1999, 56K modems were still quite common, and 1.5M download wasn't readily available for a few more years. While today's Internet access is generally good, back then it tended to be a bit spotty. Two years after "Killer Apps!" was published, the Minneapolis-St. Paul Chapter attempted an online chapter meeting, with Rob Dean (BSD), Ted Smith (ARCOM), Colin Gilboy (4specs.com), and Bob Johnson (then at RTKL), as presenters. The results, chronicled in "[Murphy's](#)

[Law strikes a Webconference!](#)", demonstrated just about every problem there was with communication by Internet.

Computers were a lot slower then, too. Intel Pentium microprocessors were beginning to approach megahertz speed, a far cry from the multi-gigahertz chips we have today. Cost was another issue, and lack of imagination may have played a part.

The software discussed in "Killer App!" provided all the necessary features, but it was klutzy, and it took time to set up. And, although it was possible to set up a webcam to make remote viewing possible, it was inconvenient. The scenario described in the article, which had someone in the field trying to explain a problem to an architect back at the office could have happened, yet little has been done until recently.

Smart phones and tablets now make possible the personal, very portable computer that existed only in science fiction novels just a few years ago. No more brick-sized phones or suitcase sized computers! We're finally beginning to see computers on the construction site, but not as much as I would expect, and many of the possibilities remain unexplored.

The obvious use of a smart phone is to take a picture of a problem and send it back to the office. That allows the person in the office to see in real time what's going on, to ask for different views, and to talk about the problem. E-mail and messaging supplement the process, and some file sharing is possible.

The tablet, with its larger screen, makes it much easier to view documents, and to see larger images. On the other hand, it's awkward to use as a camera, and it won't fit in a jacket pocket. A useful accessory would be a small, wireless camera that could be used more effectively, and also could be inserted into spaces too small for the tablet.

Both smart phones and tablets have one glaring problem - the glare and reflection that makes it difficult to see the screens in daylight. Looking ahead, something like the Google Glass will make communicating from the field even more convenient and efficient. Wearing such a device, the operator will have both hands free, allowing it to be used while climbing a ladder or crawling through openings, or even while driving. The integral GPS in all

(Continued on Page 11)

24/7 Deja vu

(Continued from page 10)

of these devices will show exactly where a picture is taken, or where to find anything that's in the model.

Communication isn't always from field to office, though. The person in the field can send photos or videos back to the office, and get drawings or other documents back. At some point, we'll have either a small projector or a tablet with an integral projector, which could be used to project images onto a wall or floor, making it easier to lay out work and locate various items.

Crane operators will have tablets mounted in their cabs to receive information from the business end of the crane, and installers will use them to get project-specific information from the manufacturers. And anyone can be called into a conference at any time, with all parties seeing what's going on, and having access to all related documents.

Another thing that we'll see is independent of the device: linked documents. For example, clicking on a detail flag on a drawing will take you to that detail. Or clicking a revision note will take you to a document that explains the revision. Or clicking a material designator will call up the related specification section. That can be done now, but it will become automatic.

You don't have to wait to start making better use of your smart phones and tablets. A number of companies offer apps that can make your life in the field easier. Here are a few to get you started:

[Vela Systems](#) and [PlanGrid](#) provide file sharing and markup capability.

[LinkedPlans](#) offers to link your documents. Read about jobsite implementation of tablets in "[Huge construction firm uses iPads and AppleTV to save millions.](#)"

We have the tools, now; let's use them!

If you have comments, please visit my blogs and leave them there!

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Institute Report Presented at April 2013 CSI South Central Regional Conference

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Membership: Annual retention rate is up over 80% with focus remaining to get to 85%, with 11,464 members end of Feb.

Certification: 1750 candidates (1430 are CDT) Risk Management Research Project: Region leaders will be sent information on this program to promote certification program's advantages to lower risk when using certified members to provide contract documents – which could possibly lower insurance costs for Architectural firms. All members on a team that have been certified and educated by CSI will be an asset to the entire project process.

Region and the CSI Mission Statement: We must ensure that CSI's mission, brand, and programs are discussed with members and set a strong example of our membership diversity and provide a welcoming environment. Emphasize that we are a professional organization rather than a social club.

MISSION STATEMENT: TO ADVANCE BUILDING INFORMATION MANAGEMENT AND EDUCATION OF PROJECT TEAMS TO IMPROVE FACILITY PERFORMANCE.

Region should continue to promote use of Brand Revitalization brand and logo.

South Central Region elected Kirby Davis our new Institute Director for coming year !!

I have thoroughly enjoyed being Institute Director for the last two years and want to thank you for your support. My mission has been to improve information flow from Institute to Region to Chapters. I am hoping this will continue.

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May 2013 Through June 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<i>Apr 289</i>	29	30	<i>May 1</i>	2	3	4
5	6	7	8	9	<i>10 Planning Mtg; Jackie's Kitchen 7 am</i>	11
12	13	14	15	16	17	18
19	<i>20 CSI Houston Board / Chapter Meeting—HESS</i>	21	22	23	24	25
26	27	28	29	30	31	<i>June 1</i>
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	<i>21 Planning Mtg; Jackie's Kitchen 7 am</i>	22
<i>23 / 30</i>	<i>24 CSI Houston Board / Chapter Meeting—HESS</i>	25	26	27	28	29