

TRADE WINDS

JUNE 2010



2010-2011 Installation & Awards Dinner

June 15, 2010 * The Plaza Club



Aloha Rodney!

Aloha,
It's been a privilege serving as President of the CSI Honolulu Chapter this past year. It's hard to believe that an entire year has blown by so quickly and it's time to pass the baton!

I wished there was more time to do all the things needed to keep improving the chapter, but I believed we are headed in a positive direction and will continue to be in good hands with the new Board.

Although the economy was down this year, the Honolulu Chapter has remained financially healthy. We continue to offer our members reasonably priced monthly dinner meetings with educational programs, popular site tours, technical seminars, and certification classes. Last November, CSI in partnership with the AIA Honolulu Chapter produced the highly successful tenth annual Pacific Building Trade Expo. The publication of the Hawaii Building Products Directory continues to be a valuable resource for the local building industry and a success for CSI.

Some of the things to improve will add value to CSI membership. Priorities for the coming year will focus on better communication to our members with a regular electronic newsletter and a revamped website. In addition to the AIA's CEU program, CSI Honolulu will also be offering learning credits through the CEN (Continuing Education Network) system.

I'd like to thank our volunteer Board for their support. Although the economy this year was slow, it seems all of us were busy which makes it challenging to serve sometimes. I appreciate the dedication, commitment, and sacrifice of all our Board members.—>

Aloha Wayne!

During the next year I hope to continue the great work of Rodney Lee and the CSI Board and Committees in making CSI an important organization for all phases of the construction industry in Hawaii. In that effort I want to hear from current CSI members as well as those who are not members but who attend CSI events about what we can do better. Member input is important if CSI is to meet the needs of our members and to improve CSI as an organization. With that in mind I hope to speak with many of you over the coming year and learn from your suggestions. Please feel free to contact me at my e-mail (wparsons@hawaii.rr.com) or by telephone (808-753-0290).

Mahalo,
Wayne

The 2010 – 2011 Board of Directors will be a good group to lead CSI Honolulu in the coming year. Again we'll have a nice mix of experience with people who've been serving along with a new member (Pete Schubert) and couple of returning board members from past years (Tim Schoder and Theresa A'ea).

Although I'll be stepping aside and serving as Past President, I'm looking forward to supporting President Wayne Parsons and President Elect Theresa A'ea. I think they'll do a great job!

Mahalo,
Rodney



Tuesday
June 15, 2010

The Plaza Club
900 Fort Street, 20th flr
Parking is available in the building for \$3.50 after 5:00 p.m.

5:15 p.m.
No Host Bar & Tabletops
6:00 p.m.
Buffet Dinner
6:30 p.m.
Program

Reservations & Cancellations 847-1862

Honolulu Chapter CSI
(answering machine, 24 hours)
RSVP prior to 2:00 p.m.,
Monday, June 14, 2010,
including cancellations.

No shows will be billed.
Note: There are no "standing" reservations... everyone must RSVP.

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PRESIDENT'S MESSAGE

Rodney Lee, AIA, CCCA

May was a busy and exciting month! The Construct2010 CSI convention and Tradeshow took place from May 11 through May 14 in historic Philadelphia. It was a highly successful conference and product expo with over 250 exhibitors from all over the country. Attendees also had 75-plus educational sessions to select from. Representing the Honolulu Chapter were Gilman Hu, Stephen Nash, Paul Kane, Theresa Aea, and me.

The Hawaii Building Products Directory received a special publications award for the second year in a row. Accepting the honor on behalf of the Honolulu Chapter was Paul Kane, chair of the publications committee.

At the annual business meeting, the delegates voted to do away with separate professional and industry member designations. This matter will be put to a vote before the entire CSI membership.

It was also announced that next year's convention is set for Chicago, September 13-16, 2011 at McCormick Place convention center. This should be another great conference and show that shouldn't be missed!

Our May dinner meeting was a well-attended event with 30-plus people present for the Green Roofs 101 presentation by architects Ryan Sullivan and Johnson Cheng of Group 70 International and Mark Ambler of Weston Solutions, Inc.

Also joining us were three table top exhibitors. CSI Honolulu Chapter thanks all of our exhibitors for their informative displays and their support!

- Ian Ross of IPR, Inc.
- Mark Reeves of Green Builder's Depot, Inc.
- Jerry Gudenau of Advance Roofing Technologies, Inc. with Jeremy Lehman of Hawaiian Sunshine Nursery, Inc.

At the April dinner meeting we elected the CSI Honolulu Chapter's 2010 – 2011 Board of Directors. Next year's Board will be installed at our June Installation and Awards dinner meeting. They include:

- President – Wayne Parsons, CSI
- President Elect – Theresa Aea, CSI, CDT, LEED AP
- VP professional – Peter Schubert, CSI, CDT, CCCA
- VP industry – Craig Williams, CSI
- Secretary – Erin Uemura, CSI, CDT, CCCA
- Treasurer – Chris Baze, CSI, CDT, CCCA, LEED AP
- Director professional – Rick Myers, CSI, AIA
- Director industry – Tim Schoder, CSI, CDT, LEED AP
- WR Director – Paul Kane, CSI, CDT

As Past President, I will look forward to serving in a different capacity, while supporting Wayne and Theresa.

Also, I'd like to congratulate Stephen Nash, CSI, CCS, AIA, LEED AP, who was elected by our West Region members to represent us as a director at the Institute level.

Please plan on joining us as we celebrate the installation of these officers and directors. It will also be a chance to acknowledge folks who have helped advance CSI Honolulu Chapter's mission this year. See you there.

Aloha,
Rodney

Thank You

*2010-2011 Installation & Awards Dinner * June 15, 2010 * The Plaza Club
Presentation by Scholarship Award Winner: Cherri L.M. Marinas*



One of our Architecture student scholarship award winners, Cherri L. M. Marinas will enlighten the CSI Installation and Award dinner program attendees with her talk on *“Wearable Architecture: Fashion to the Rescue”*. In architecture school Cherri developed an interest in fashion and architecture

Her doctoral dissertation is also on Wearable Architecture and focuses on if and how the emerging urban nomad fashion trend can serve as a useful part of tempo-

rary disaster relief. She will discuss whether the clothes and accessories worn by survivors when a natural disaster hits bicoastal cities can transform into protection from the elements. Can clothing provide shelter from the natural disaster event until temporary shelter is provided by the government. Cherri hopes to design a prototype of Wearable Architecture for the people of Hawaii to reduce the concerns associated with catastrophic events.

Cherri was born and raised on the island of Maui and is a 2004 graduate of Maui High School. She concludes the 7 year doctorate program at the University of Hawaii at Manoa School of Architecture this year.

Mahalo to our Tabletop Displayers

Advanced Roofing Technology, Inc. & Hawaiian Sunshine Nursery, Inc.

Jerry Gudenau & Jeremy Lehman
41-436 Hihimanu Street, Waimanalo, HI 96795
Phone: 259-7295 Fax: 259-8196
Email: pgs@hawaiinursery.com

Description: Distributor of LiveRoof—A pre-vegetative green roof module



Green Builder’s Depot

Mike Reeves
550 Paiea Street, #126, Honolulu, HI 96819
Phone: 839-9700 Fax: 625-5478
Email: greenbuildersdepot@hawaiiantel.net



Description: Eco-friendly; sustainable; made in the USA; building & maintenance materials



IPR, Inc.

Ian Ross
1481 S. King Street, #226, Honolulu, HI 96814
Phone: 845-7788 Fax: 957-5501
Email: ian@ipr-hawaii.com

Description: Playground equipment





Green Roofs 101 May Dinner Meeting Recap

Rodney Lee, AIA, CSI, CCCA, LEED-AP



Examples of green roofs and the basics of green roof design were presented by architects Johnson Cheng, AIA, LEED-AP and Ryan Sullivan, AIA, LEED-AP of Group 70 International, Inc. and green roof professional Mark Ambler, PE, PMP of Weston Solutions, Inc. at the May dinner meeting.

A green roof is defined as "a roof of a building that is partially or completely covered with vegetation and soil, or a growing medium, planted over a water-proofing membrane. It may also include additional layers such as a root barrier and drainage and irrigation systems."

History

Green roofs date back to the 600 BC ziggurats of ancient Mesopotamia. Other ancient examples include the 700 BC Hanging Gardens of Babylon and the 1300 AD gardens above the Benedictine abbey in France. More modern examples of 1937 roof Gardens are found at the Rockefeller Center in New York City. In the 1960s, green roofs developed in Germany comprised of a system of manufactured layers deliberately placed over roofs to support growing medium and vegetation.

Some familiar local examples of green roofs are found at the following locations:

- State Capitol lawn over its underground parking structure
- Kukui Plaza roof garden
- Landscaped roof with Early Childhood Center over the City and County Municipal parking
- Landscaped roof over parking at the Beretania Street Police Station
- Hawaii Convention Center roof terrace
- Smith-Beretania Park and playground over the public parking lot below

Benefits

The benefits of green roofs are many. More green space is provided especially over hard surfaces like parking. More amenity space is afforded for building occupants such as roof top patios,

pool, playground, daycare, meeting areas, and recreation. The aesthetic appeal of the property enhances its value. Storm water retention and delayed runoff allows for downsizing of storm water systems. Landscaping also reduces the urban heat island effect. Green roofs also insulate the building and saves on cooling costs.

Green roofs can also contribute to Sustainable Sites, Materials and Resources, Water Efficiency, Energy and Atmosphere, and Innovation in Design credits for buildings registered for LEED certification.

The implementation of green roofs requires the multi-discipline collaboration including the owner, design consultants, contractor and plant suppliers. Design and maintenance considerations include structural loading, exiting requirements, ADA accessibility issues, acoustical and noise, lighting, wind, and fire hazards of un-maintained, dry landscaping.

Intensive green roofs used for assembly purposes should be designed for 100psf live load. Extensive green roofs (shallower) may be designed for 20psf live load. Dead load including plants, media (saturated), drainage layer, and roof membrane should be designed for 45.4psf.

Basics

Growing media is not topsoil but rather a local mix of about 94% inorganic and 6% organic components. Four inches of such media can be expected to weigh between 27psf and 29psf when fully saturated. The right media particle size is also important to promote drainage and healthy plant growth. Media should have less than 7% fines (0.05 mm) particles. Pre-grown plant materials in modular trays will purge residual fines from being introduced onto the roof.

Durability as well as aesthetics of plants for a green roof should be considered. Generally, it would be wise to select plant materials that are acclimated to and thrive under the local conditions to minimize maintenance and irrigation. Plant materials should also be selected with accessibility of the roof and maintenance requirements in mind. Materials should be test grown under the site conditions to assist in plant selection.

Systems

Green roofs are distinguished by two main types: fully integrated (built-in) and modular (with plant materials in removable containers). Fully integrated green roofs offer advantages that include a single source, one installer, less warranty issues, and one system designed for a the green roof. The disadvantages include: it is more permanent, leaks in the roofing are more difficult to find, and installed plants take a while to get established.

Green Roofs 101 May Dinner Meeting Recap (continued from page 4)

Rodney Lee, AIA, CCCA

Modular green roofs consist of modular-sized plant trays, roof membrane, protection board, and rigid insulation over the roof structure. The advantage of modular systems includes faster installation, less permanent (changeable or removable), established plants are installed, roofing can be easily accessed, and leaks are easier to locate. Disadvantages include warranty issues (since this is not a single source system), green roof materials are considered "overburden", and materials maybe subject to wind uplift.

There are also two main types of green roof assemblies: extensive (shallower for small plant materials, like grasses and ground cover) and intensive (deeper for larger plants, including trees).

- An extensive assembly includes vegetation, three inches to six inches of growing media, filter and drainage system, rigid insulation, root barrier, and waterproofing membrane over the roof substrate.
- An intensive assembly includes vegetation, three inches to 36 inches of growing media, filter and drainage system, rigid insulation, root barrier, and waterproofing membrane over the roof substrate.

Case Studies

Several notable case studies of green roofs were presented. One example is the California Academy of Sciences in San Francisco's Golden Gate Park with its undulating green roof that was inspired by and mimics the nearby hills of the city. The roof of this LEED Platinum building encloses spaces that recreate different climate settings and environments to house a variety of flora and fauna. Another was the expansive green roof on the Vancouver Convention Center, which is the world's first LEED Platinum convention center. The School of Art, Design and Media at Nanyang Technological University in China features a green roof that is entirely accessible and usable by occupants and the public. The Ballard Library in Seattle, Washington is an example of a fully integrated green roof that is inaccessible.



Some of the dramatic sloping green roofs in the case studies achieved slopes as steep as 45 degrees. Plant media with a restrain system or tied modular containers are required to keep the green roof in place.

In Mark Ambler's presentation, other examples of green roofs were included for residential buildings (900 North Michigan Avenue in Chicago), institutional facilities (Spertus Institute, Chicago), health care (St. Rita's Medical Center in Lima, Ohio), retail (Apple Store and Kohl Department Store in Chicago, Illinois and Starbuck's in Austin, Texas), university buildings (University of Wisconsin), government (EPA Headquarters in Denver, Colorado), and DoD military buildings (Tobyhanna Army Depot, Pennsylvania).

It was noted that architects initiates the case for green roofs 51% of the time. However, the final decision to provide a green roof rests with the building owner 57% of the time. The two main reasons owners decide for green roofs are to reduce the heat island effect and extend the service life of the roof.

Green roofs reduce direct runoff from roofs by nearly half of conventional roofs. The beneficial effects are smaller stormwater pipes, less flooding, decreased sediments in runoff, and reduced urban infrastructure. Other benefits are economic (roof life, energy costs, property value), ecological (stormwater, urban heat island, air quality, habitat creation), and aesthetic (visually appealing, acoustic insulation).

Chicago and Washington, D.C. are in the forefront with over 500,000sf of green roofs in each city as of 2008. In Chicago, Mayor Daley has aggressively pushed for more green roofs by extolling their benefits, setting high goals for the city, offering tax benefits, required 50% green roof coverage for new buildings, expedited permit reviews, and waived permit fees.

Hawaii has both the highest average temperature and highest energy cost in the nation. The use of green roofs to reduce the heat island effect and to insulate roofs will impact the amount of energy and air-conditioning we use.

Aside from the environmental benefits, the cost savings from reduced energy use should be significant and reason enough to consider more green roofs.





Inside CSI

Stephen Nash, CSI, CCS, CCCA, AIA

CSI has implemented a number of initiatives recently and the dividends are paying off. These were all evident in Philadelphia, the site for Construct 2010 and the CSI Annual Meeting. Most heartening was the preliminary attendance figures for the annual convention, up 6% from last year. This is a very impressive figure for a down economy, especially when industry averages for other organizations have seen a double digit decline. A strategic move to increase attendance for future conventions the next show will be moved to a fall date returning in the fall of 2011 in Chicago.

Unveiled prior to the annual gathering is the new and improved CSI website. If you have not had a chance to visit check it out. The new site has a whole new look and feel. Navigation is so much easier. Imagine finding the actual information you are looking for. Included with the new website are microsites for chapters and regions that don't require a software geek to manage. Included across the microsites are the ability to integrated calendars. Chapters can now place events on the national calendar and include important institute dates on the chapter websites.

The CSI West Region delegation continued to add to it's maverick (yes, Sarah there are others) reputation by introducing a Bylaws Amendment for inclusion on the next ballot. Brought to the floor by the Los Angeles Chapter the motion reintroduces an initiative to eliminate "Professional Member" and "Industry Member" classifications to be replaced by single "Member" classification. The single inclusive "Member" classification will be on the same level as other membership categories such as, Student, Intermediate and Emeritus. The motion prompted a number of comments both for and against from the members before passing in a vote of the members.

President-elect Dennis Hall utilized the Annual Meeting venue for rolling out the CSI Strategic Plan FY11-15. CSI's new mission statement: "To advance building information management and education of project teams to improve facility performance." The new plan for CSI identifies our core priorities through the following value statement.

CSI is an association dedicated to improving organization, management, and communication of building information through:

- A diversified membership base of allied professionals involved in the creation and management of the built environment
- Continuous development and transformation of standards and formats
- Education and certification of professionals to improve project delivery processes
- Creation of practice tools to assist users throughout the facility life cycle

The strategy or path outlined to achieve the priorities are identified in three "Strategic Themes"

- Communications Excellence
- Building Team Diversity
- Building Information Management

The five year plan continues to identify clear objectives from a number of perspectives; CSI Member, Construction Industry, Financial, and Organizational. Learn more about CSI's plan for the future by reading the plan for yourself. The 10 page CSI Strategic plan is available for downloading from the new and improved CSI website at <http://www.csinet.org/strategicplan>.

They Did It!

Congratulations to the seven individuals who passed their CSI exams this spring! Six of the following were also in Mike Smith's certification classes. Passing the CCCA certification exam were:

- Merrill Naira, Hawaiian Dredging Construction Company
- David Seth, CSI, Actus Lend Lease

Passing their CDT exams were:

- Melody Bjorkgren, Actus Lend Lease
- Joseph Cengia, Pacific Architects, Inc.
- Scott Shiroma, Hawaiian Dredging Construction Company
- Devon Turner, Hawaiian Dredging Construction Company
- Jason Valentine, Allana Buick + Bers, Inc.



***From Indy to Philly—CSI National Convention
Philadelphia, Pennsylvania, May 11-14, 2010
Rodney Lee, AIA, CSI, CCCA, LEED-AP***

Well, the CSI Convention in Philadelphia was another huge success judging from the turnout and members' responses to the venue, programs, and activities! Despite the weak economy, attendance at the event was up 6% over last year's Construct2009 in Indianapolis. Many thanks to the firm of Hanley Wood, conference coordinator, for organizing and putting on another great event this year!



conference events were kicked off with a keynote presentation by energetic, young Danish architect Bjarke Ingels, founder of BIG (Bjarke Ingels Group). Interspersed with humorous anecdotes, his inspiring talk featured some of his firm's award winning works in which he explained the design process and concepts behind each project. The firm is rapidly developing a reputation as a well-known national and international design group with some high profile and exciting commissions in Asia and Europe.

What made this convention special for me was meeting Philadelphia Chapter president Steve Lawrey and three other chapter presidents from across the country a year ago in Indianapolis. On and off during the past year, our group kept in touch through email exchanging ideas and encouraging one another during our terms. Seeing Steve again a year later and the fruits of the Philadelphia Chapter's hard work as host chapter for the convention was especially exciting. The reunion was celebrated with dinner at Pat's, one of Philly's famous cheese steak sandwich shops.

As usual, the 75-plus educational sessions offered a wide assortment of topics to choose from. There were lots of seminars on technical subjects, green topics, and professional improvement. My selections included a variety of seminars ranging from green trends that are shaping green standards and codes, BIM and sustainable design, writing effective LEED specifications, high performance cost-effective buildings, the art and science of polished concrete, green products and Green Format, and effective project leadership.



Located in the heart of downtown Philadelphia, the Pennsylvania Convention Center easily accommodated all of the convention's activities and events. Its central location helped showcase the city's historic treasures like City Hall, Independence Hall, and the Liberty Bell a few blocks away. The convention center itself is located in the historic Reading

Terminal, a nineteenth century train terminal inside a cavernous structure with a long span, vaulted roof. On the ground floor of the building is the colorful and bustling Reading Terminal Market with food courts, ethnic eateries, and market stalls. Ten minutes away by foot from the convention center is the city's historic theater district on Broad Street.



Supporting the convention was this year's Construct2010 Tradeshow which featured over 250 exhibitors from all over the US. The three-day expo featured even more green products and technologies this year, which is encouraging and overwhelming at the same time for designers. Along with workshops and more educational opportunities, the show included booths displaying new products and a student competition.

The convention's full schedule featured a mix of educational programs, social activities, and CSI business. The

The Philadelphia Chapter welcomed its guests during their CSI Host Event. The fun and social evening was held at the historic Fairmont Waterworks which is now a museum

From Indy to Philly—CSI National Convention (continued from page 7)
Philadelphia, Pennsylvania, May 11-14, 2010
Rodney Lee, AIA, CSI, CCCA, LEED-AP

and learning center. This enjoyable time allowed professional and industry members such as the exhibitors a chance to network and mingle in a casual setting. Nearby is the Philadelphia Museum of Art and monumental front stairs that served as the backdrop for scenes in the Rocky movies.



The business side of the convention included an orientation for incoming presidents and president-elects. This year's President-Elect

Theresa Aea was present while I attended

for Wayne Parsons, Honolulu Chapter's incoming president, who could not make the trip. The presentation gave the new officers a glimpse of what to expect and how the Institute can support them.

Other CSI business included the annual meeting and the West Region caucus. The annual meeting included recognition of chapters and individuals for their outstanding achievements during the past year. Institute officers for the past year were also acknowledged for their service and contributions. A vote was taken to replace the professional and industry member designations with one category. Paul Kane, CSI Honolulu Chapter, accepted the award for the Hawaii Building Products Directory which won the special publication award for the second year in a row. Finally, Chicago was announced as next year's host chapter for the 2011 CSI Convention.

The Honors and Awards Gala is a reception and formal dinner where distinguished members are recognized and honored. It celebrated the installation of six new Fellows to the Institute



for their achievements, service to CSI, and contributions to their communities. The event also marked the transition of



the presidency from Mike Davis to incoming president Dennis J. Hall.

Capping off the week were excellent back-to-back technical tours of two of

the city's prominent performing arts facilities. One was a tour of the historic Academy of Music opera house and the other of the contemporary Kimmel Center for the Performing Arts, home of the Philadelphia Symphony. The Academy of Music was the state-of-the-art opera facility of its time while the Kimmel Center represents the present state-of-the-art performing arts venue. The tours contrasted and compared their construction, function, limitations and flexibility, and how each facility accommodates the requirements of different performances.



Start making plans for Construct2011! Hope to see you next year in Chicago, which promises to be another awesome convention!



Tale of Two Theaters: Academy of Music and Kimmel Center Technical Tour
CSI National Convention, Philadelphia, Pennsylvania
Rodney Lee, AIA, CSI, CCCA, LEED-AP

The technical tour of the Academy of Music and The Kimmel Center for the Performing Arts highlighted the evolution of theater design from the mid-nineteenth to the late-twentieth century. Theater buildings have evolved from single purpose spaces to multi-function, performing arts centers with multiple performance spaces plus other revenue generating functions.

Background and Building Design:

- The Academy's traditional design with classic interiors and facades reflect the architecture of the period in which it was built.

- The dramatic contemporary design of the Kimmel Center with its large barrel vault glass roof is reminiscent of the Pennsylvania Convention Center in the historic Reading Terminal building with its high vaulted roof.



- Both buildings have unique operational and maintenance challenges. The older Academy has undergone structural modifications and other renovations to its stage and backstage areas to accommodate some of the popular touring shows and their unique stage and performance requirements.

Cleaning the all-glass roof and other high areas of the Kimmel Center is especially labor intensive and time consuming. Comfortably heating or cooling the voluminous public space under the glass roof is difficult during certain seasons and conditions.



Photo courtesy of Theresa Aea

- Both theaters are located on the same block just a few buildings apart. The Academy was built on the edge of the city or suburbs when it was constructed.

The Kimmel Center was built as an infill between existing

buildings which are closer to the timeframe of the Academy. Its modern design prominently stands out among its older, traditional neighbors.

- The Academy features an especially deep stage that works well for ballet and opera. The width of the stage is not always ideal for some of the contemporary touring shows.



Stages and some of the seating areas in the Verizon Hall and Perelman Theater are outfitted with turntables, elevators, and tracks which allow the stage and backstage areas to be adapted to suit different performance requirements.

Theater Basics:

- The Academy of Music was designed by architects Napoleon LeBrun and Gustav Runge, prominent local architects who won a design competition for the commission. There is no mention of an acoustical consultant or the mechanical / electrical / plumbing (MEP) team.

The Kimmel Center was designed by Raphael Vinoly of international fame. Acoustical consultant was Russell Johnson of ARTEC. MEP design was done by ARUP.

- The Academy was constructed from 1855 to 1857. The Kimmel Center was constructed between 1998 and December 2001.
- Fundraising for the Academy was by stock sale (subscription). For the Kimmel Center, major donors included Sidney Kimmel, \$20million; State of Pennsylvania, \$20million; and the Verizon Corporation made the \$15million naming gift for the Verizon concert hall.

- The Academy is the oldest grand opera house in the USA still used for its original purpose. It is the home of the Opera Company of Philadelphia and the Philadelphia Ballet. It also hosts many civic events and touring shows.



Verizon Hall at the Kimmel Center is the home of the Philadelphia Orchestra.

Tale of Two Theaters: Academy of Music and Kimmel Center Technical Tour
CSI National Convention, Philadelphia, Pennsylvania
Rodney Lee, AIA, CSI, CCCA, LEED-AP

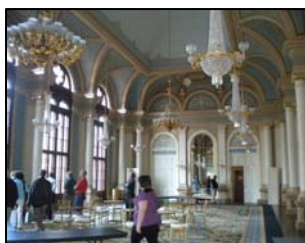
- The Academy cost about \$200,000 to build. The Kimmel Center cost about \$235,000,000.

Theater Size:

- The Academy seats approximately 2,800 in its only auditorium. The Kimmel Center's Verizon Hall seats approximately 2,500 and the Perelman Theater seats between 400 and 600, depending on the stage configuration.



- At the Academy, food service facilities are now limited to a catering prep kitchen and concession services. Three prefunction spaces include the Ballroom (250 capacity), the Canteen (80), and the Ormandy Reception Room (20).



Prefunction areas in the Kimmel Center are numerous which include a full-service restaurant, concession services, and other amenities.

- The Academy has approximately 137,000 total square feet, whereas the Kimmel Center has 450,000 total square feet.

Basic Building Systems:

- The Academy is a load-bearing masonry building with cast iron structural members and wood framed floors. The roof was originally wood-framed; it is currently steel-framed.

The Kimmel Center is a modern steel framed building with concrete floors and roof decks.

- The original ventilation system in the Academy consisted of a coal-fired furnace and a basement-to-attic, gravity-driven air circulation system. Steam heat was added in the early twentieth century, and it was air-conditioned in the 1950's. All HVAC systems were updated in the '80's and '90's. The Kimmel Center has modern heating and air-conditioning systems.
- Elevators were installed in the Academy in the late 1980's.
- The Academy had plumbing, including china water closets, when it opened; cisterns in the basement collected all waste water.

Noise and Vibration Control:

- Both the Academy and the Kimmel Center sit adjacent to the Broad Street subway lines, and PATCO subway lines run under Locust Street next to the Academy.
- The Academy is constructed using the box inside a box scheme for exterior noise control. The auditorium is enclosed in 3-feet thick masonry walls, as are the lobbies. The theaters in the Kimmel Center are also boxes within boxes.



Acoustical Design:

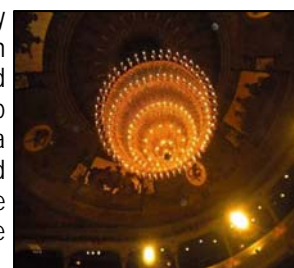
- The Academy's interior masonry auditorium walls are lined with wood studs, pine paneling, and plaster. The shape is the traditional open horseshoe for optimal sight lines to the stage.

The auditorium dome is mirrored by masonry-lined dry well 15-feet deep. The three balconies are constructed in a shallow spiral and gently slope towards the stage.

- The Verizon Hall is in the shape of a cello with the interior surfaces clad in mahogany. It also includes acoustical chambers, 71-feet high x 16-inches deep. These are used along with the moveable clouds above the orchestra and motor operated drapery to acoustically tune the hall. The Verizon Hall's foundation is acoustically isolated.

Theatrical Lighting and Stage Rigging:

- The Academy was originally gas-lit, including the main chandelier. It had a wood gridiron and traditional hemp rigging until 2002, when a substantial steel gridiron and a counterweight system were installed during a complete stage renovation.



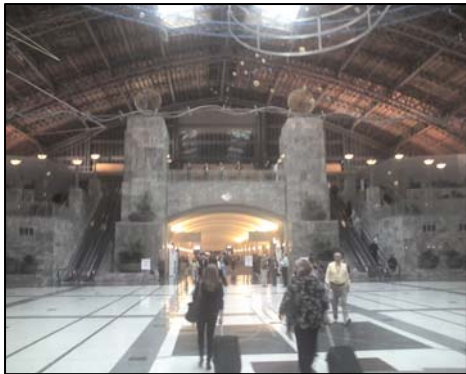
- Verizon Hall is equipped with a system of electric winches that serve hanging points over the stage. The Perelman Theater has a steel gridiron and a counterweight rigging system.

All venues have computerized lighting controls.



Construction 2010 Report
CSI National Convention, Philadelphia, Pennsylvania
Paul Kane, CSI, CDT, MAI

Entering the Construct 2010 at the Philadelphia Convention Center.



May 11th

After flying half a day and all night I arrived in Philadelphia for Construct 2010.

Got to hotel and got some rest as my room was ready when I arrived at about 7:30 AM.

First educational session was *Achieving High Performance Buildings Cost Effectively* by Richard R. Paradis, P.E., BSCP, Bd. Cert. NCE, Director, Advanced Materials Program for the National Institute of Building Sciences, www.NIBS.org & www.WBDG.org are website related to topic. This session covered upcoming legislations such as: Energy Independence & Security Act of 2007, Title IV, Energy Savings in Buildings and Industry, Section 401, and its definitions:

- A building that integrates and optimizes on a life cycle basis all major high performance attributes, including energy conservation, environment, safety, security, durability, accessibility, **cost benefit**, *productivity*, sustainability, functionality, and operational considerations.

Other topics were AIA 50to50, 50 strategies toward 50% fossil fuel reduction in buildings and 2030 when there is legislation that takes effect mandating building be net energy zero. This is just 20 years away. Lots of good info on website listed above and I have the hand out available from this session for those that might want it.

Second session on this day was *Beyond Repair: Historic Window* by Chick McBrien CSI, CDT, Architectural Rep, Marvin Windows & Doors. This was another very informative session that explained the difference between window rehabilitation (fix it in

place) and restoration (make it look like original). We also learned about when rehabilitating historic buildings and their windows that it is necessary to do very thorough documentation, digital is best and that there are Federal & State tax credits for historical restoration.

<http://www.cr.nps.gov/hps>

Park Service Standards

Category	Intent	Means
Preservation	Sustain existing form	Maintenance and repair
Rehabilitation	Retention and repair, with latitude for replacement of deteriorated features.	Repair, alteration, addition or retention of features of value.
Restoration	Depicting form and character of a property at a particular period of time.	Removal, retention and repair, or replacement to restore design.
Reconstruction	Re-creation of a non-surviving site	New construction

Evening was spent riding the train and walking in the neighborhood to Geno's Cheese Steaks and across the street Pat's King of Steaks to sample true Philly cheese steak sandwiches. I loved Pat's.

May 12th

The Reality of the Construction Process sort of center around it's good to have your CDT if your going to involved in the commercial construction process in any capacity.

Afternoon session was *Expansion Joints & Closures: Solutions Not Problems!* this was the roofing manufacturers take on roof and wall expansion joints. Solutions were only roofing solutions. Did not address architectural, pedestrian, watertight or traffic-grade expansion joints.

May 13th

This morning I went to Reading Terminal Market of breakfast and to window shop guy style. Only if I had a BBQ and lanai back at the hotel room.



Construction 2010 Report (continued from page 11)
CSI National Convention, Philadelphia, Pennsylvania
Paul Kane, CSI, CDT, MAI

Green Products & GreenFormat was a good presentation and was important in relationship to the Hawaii Building Products Directory. There is a movement to have GreenFormat become the “everything green go to site” on the web. I would encourage all manufacturers to register their products at www.greenformat.com.

Arts & Sciences of Polished Concrete was another view of a single technology for a subject with several facets and option to get to the same end result.

Don't Let Green Design Cause Red Ink Insurance companies/ industries view on the cost of green building and the insuring of it.

May 14th

I'm a PC & I'm a Mac – Winning results for Product Reps & Architects was a very well done presentation giving product reps insight as how to work with architects and when looking to book a presentation when a project is under design when the right time is to ask for an appointment. Again having a CDT and understanding the design process helps let you know when to call on an architect for project specific items but this was a good presentation because you got to hear about what an architect is thinking about as he goes through this process.

This program has been done a few times at region conferences and again at nation by CSI Fellows Casey Robb, FCSI, CCPR, LEED-AP of DuPont and Grady Whitaker, RA, FCSI, NCARB. These guys are good speakers and this was a very valuable session for those ne to architectural sales.

Example from session

i'm a mac, i'm a pc

- **Construction Documents – (win-win)**
 - if it's valid, mac will include you!
 - educate project team on design problems & solutions
 - focus on solutions that fit the design concept
 - continue to build relationships with mac
 - handle dis-information and mis-direction
 - respect limitations on time & budget

(Examples of win-win by PC & Mac)

Performance Testing & Inspection of the Building Envelope this was definitely one of the most interesting educational sessions I attended filled this all sorts of great tests and forensics that owners typically don't want to pay for but should. All sorts of info on air barriers and leakage, waters tests for leaks, wind load and impact resistance the list went on and on. This session was presented by Kevin Knight, Director of Building Envelop Commissioning at Architectural Testing, Inc. Kevin would be a great speaker for our Expo in November. I was very impressed with this company. Their website is www.architecturaltesting.com and here is the main office and map of labs and offices.



Philadelphia was a great host and this is Steve Lowry the President from the host chapter that only had 10 months to get everything together.



Gilman Hu, FCSI, AIA got a Lifetime Member Plaque during the Presidential Honors at the Gala pictured here and certificates of Merit and Appreciation.

Here is a picture of the transition of presidents from Mike Davis, FCSI, CDT to our Chapter friend Dennis Hall, FCSI, AIA. Dennis has been to Hawaii to help with Master-Format™ presentations and issue when it was first introduced back in 2005.



Philly was a great host and the Philadelphia Convention Center was a great space combining the old of the old train station and the new convention space built above and adjacent it.

Heading out of convention center.



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