

THE MEMPHIS **perspective**

February 2019 edition



February Chapter Meeting Program:

BIM Integration in the Construction of the Methodist University Hospital Expansion

Presented by Turner Construction Team

INSIDE:

- ~ CSI Memphis Presidents Message pg. 4 ~ Notices pg. 5 ~ CSI Memphis Leadership 2018-19 pg. 6-7~
 - ~ New Members and Anniversaries pg. 8 ~
- ~ Change Orders: *do not be afraid* by Hans Dietrich Faulhaber, Architect pg.9-10~
- ~ January Program Report by B.J. Agnew Brillard pg.11-12~
- ~ Dempsie B. Morrison Scholarship Fund pg. 18-19~

csimemphis.org

About CSI

Founded in 1948, the Construction Specifications Institute is a not-for-profit technical organization dedicated to the advancement of construction technology through communication, research, education and service. CSI serves the interests of architects, engineers, specifiers, interior designers, contractors, product manufacturers and others in the construction industry.

www.csinet.org

CSI Membership

Architects, engineers, contractors, and manufacturers—14,000 members strong—are in touch with one another through their Construction Specifications Institute membership. CSI provides contacts in the construction industry as well as provides you up-to-date information to help you do your job efficiently and effectively. Yearly Institute membership fee is \$250 plus \$40 Memphis Chapter fee = \$290; Institute membership fee for an Emerging Professional is \$125 plus \$40 Memphis Chapter fee = \$165.00; and Institute membership fee for students is \$30 plus \$10 Memphis Chapter = \$40.

Contact: Richard Hill richard.hill@basf.com
662-420-9563

Tabletop Displays at Monthly Meetings

At each monthly meeting, the Chapter encourages all members to provide a table display of their product and/or services for inspection and education of those attending the meeting. After the meal and prior to the program, the displayer will be given five minutes to address the group. The table display is also encouraged to be represented during the social hour and after the program for any questions by the attendees. The presentation fee for this time is \$25.00.

Table Top Info. - Mike Zielinski
mzielinski@lrk.com
901-652-5612

The Memphis PerSPECTive Information

The Memphis PerSPECTive is published ten times a year by the Memphis Chapter of the Construction Specifications Institute. Appearance of products or services, name or editorial copy does not constitute an endorsement by the Memphis Chapter of CSI nor any of its members.

Circulation of *The Memphis PerSPECTive* is now limited to access on the CSI Memphis website: csimemphis.org. To be included on future notifications of the uploaded magazine forward your name, mailing address, and e-mail address to the following email address:

hansfaulhaber@hotmail.com

SUBMITTING ARTICLES

Readers are encouraged to submit articles of interest within the construction industry for publishing. Articles on individual projects whether currently in design, under construction, or recently completed are encouraged.

Any printed articles, photos or program inserts should be forwarded to:

The Memphis PerSPECTive
Attn: Hans Faulhaber
hansfaulhaber@hotmail.com

Articles and images should be submitted in electronic format via digital media or email. Microsoft Word documents are required for articles, minus tabs and any other formatting. All images must include a date and caption. Printed material will not be accepted.

MAGAZINE ADVERTISING

Advertising in the PerSPECTive will be discontinued as of June 1, 2018. Advertising will be on the website from that date forward.



CSI Memphis Chapter Meetings

Board Meetings: 5:30pm - Monday preceding Chapter Meeting

Place: Allen + Hoshall Conference Room 1661 International Dr., Memphis, TN 38120

Chapter Meetings: 11:30 am -1:00pm 2nd Thursday of the month
(except Dec.,April, July)

Place: Holiday Inn University of Memphis Medallion Lounge
3700 Central Ave, Memphis, TN 38111

Cost: \$20 for members and guests; \$12.50 for students (*sponsors may cover student costs*)

CSI Memphis Chapter Calendar 2018-2019

February 2019

February 11, 2019 Board Meeting

See above for time and place

February 14, 2019 Chapter Meeting

Chapter Meeting -

- BIM integration in the Construction of the Methodist University Hospital Expansion
- Speaker: Turner Construction Team

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		



GO TO *csimemphis.org*
Everything you need to know about CSI Memphis and more.

CSI Memphis Chapter President's Message



JEFFREY PARNELL, CSI, AIA
CSI MEMPHIS CHAPTER PRESIDENT

Greetings CSI Memphis!!

I enjoyed seeing such a great crowd for the January CSI Chapter Meeting. **Jason Weeks** of **LRK** was gave an excellent presentation on **The University of Memphis Laurie-Walton Family Basketball Center**. As a graduate of the University of Memphis Department of Architecture and proud Tiger fan, I was elated to get a look at the new facilities on the South Campus. I also loved to hear that the design team consisted of some of my fellow alumni. The University of Memphis Department of Architecture is absolutely fantastic and the Memphis Chapter of CSI is proud to its continued support of the Department by raising money for the Dempsie B. Morrison Scholarship Fund. The funds raised for the Morrison Scholarship is matched by the University, which allows two full scholarship to be presented to students selected from the Department of Architecture each school year. The final day of this year's fund-raising drive is January 29th. If you would like to donate, contact Julie Fleming or go to csimemphis.org/morrison-scholarship/.

The next chapter meeting is on Valentine's Day, Thursday February 14th. **The Turner Construction Team** will give a presentation on the **Construction of the Methodist Hospital Expansion** with a focus on how they leveraged technology like BIM Coordination, Virtual Reality and Drone Flights to aid them during the construction process. It should be a great meeting and I hope you'll join us. As always, the chapter meeting will begin at 11:30 at the University of Memphis Holiday Inn Medallion Room. RSVP today!

Finally, I'd like to give the chapter a quick BUILD/It update. The 2019 BUILD/IT Products Display Show will be on Tuesday April 9th and we will be returning to the Grand Ballroom at the Holiday Inn located on the University of Memphis Campus. I'm proud to an-

nounce that this year's keynote speaker is **Chris Baribeau** of Modus Studio. We'll also have several other exciting events including a Mock-Bid Day presented by the folks at Turner Construction; a seminar on Public Relations in the AEC industry put on by the Memphis Business Journal; and a Booth Crawl at the products show. Currently, only 18 booths remain open on the show floor! If you want to get involved with one of the best product shows in the Gulf States Region, you can check out the award-winning www.csimemphis.org to download the registration packet.

Just like the previous years, admission to the product show, registration for the seminars and keynote, entry into prize drawings, meals and beverages are all free to BUILD/IT attendees. These perks draw architects, designers, contractors, and engineers from across the Mid-South. I ask that you join our event this year as either an attendee, vendor or a sponsor and help us continue one of our chapter's great tradition of knowledge transfer. The proceeds from BUILD/IT go to fund the Memphis Chapter of CSI as well as the chapter's Dempsie B. Morrison Scholarship Fund. You'll find a registration packet attached.

CSI is the best kept secret in the industry, and we need to change that. I would like to challenge every member to bring a friend or colleague to the next chapter meeting. Volunteer your time; we have no shortage of committees to join and a slew of great events planned over the remainder of the fiscal year. Want to get involved? Email us at info@csimemphis.org. If you don't have the time to volunteer but still want to help, donate to the Morrison Scholarship Fund and help provide opportunities to the next wave of AEC professionals.

Jeffrey Parnell, CSI, CDT, AIA
Architect, HBG Design
CSI Memphis Chapter President



CSI Memphis Notices

The Memphis *PerSPECTive* is currently searching for an Editor. If you are interested in becoming the Editor of this award winning publication please call Hans at (901) 326-9937!

CSI MEMPHIS MEMBERSHIP COMMITTEE

Architects, engineers, contractors, and manufacturers can be in touch with one another through their Construction Specifications Institute membership. CSI provides contacts in the construction industry as well as provides you current information to help you do your job efficiently and effectively. Annual Institute membership fee is \$250 plus \$40 Memphis Chapter fee = \$290; Institute membership fee for an Emerging Professional is \$125 plus \$40 Memphis Chapter fee =

\$165.00; and Institute membership fee for students is \$30 plus \$10 Memphis Chapter = \$40. The Memphis chapter serves 107 members, with Britton Herring and Marie Hayes joining CSI in August.

**Contact: Richard Hill
richard.hill@basf.com
662-420-9563**



INVITE A FRIEND OR COLLEAGE

CSI Memphis Mission Statement

In order to enhance the process of creating and sustaining the built environment, Memphis Chapter CSI:

Provides opportunities for persons in the design and construction industry to receive cutting edge information regarding construction documents and practices;

Promotes members career advancement and enhancement of leadership and communication skills; and supports students aspiring to design and construction careers.



2018-2019 CSI Memphis Officers and Board of Directors

Officers:

President: Jeffrey Parnell
President Elect: Open
Vice President: Susan Evans
Secretary: Lisa Namie, Architect
Treasurer: Gary White, Architect
Past Pres: Julie Fleming
UM Student Pres: Jason Ontiveros

Board of Directors:

Tommy Smith, RA: 2016-2019
Sara Hawkins: 2016-2019
Mike Zielinski, CCCA : 2017-2020
Michael Ragsdale: 2017-2020
Carlie Massery: 2018-2021
BJ Brillard: 2018-2021

2018-2019 Committee Chairs

Academic Affairs:	Jeffrey Parnell
Awards:	Sara Hawkins
Banquet/Christmas:	Susan Evans
Certification:	Tommy Smith and Hans Faulhaber
Chapter Operations:	Jim Neison
Conference/Conventions:	Mike Zielinski
Database:	Pamela Davidson and Richard Hill
Education:	Mike Zielinski
Fellowship:	Wally Bostelmann
Finance:	Jim Neison
Golf Tournament:	Matt Bogosian and Jeremy Dollar
Historian:	Carl Drennan
Magazine Editor:	Hans Dietrich Faulhaber
Membership:	Richard Hill
Nominations:	Julie Fleming and Jeffrey Parnell
Planning:	Hans Faulhaber and John Bigham
Products Display Show:	Mike Zielinski and Jeffrey Parnell
Programs:	Jeffrey Parnell and Julie Fleming
Publicity:	Dirk Veteto
Scholarship:	Julie Fleming and Kate Haywood
Table Top:	Jeffrey Parnell and Julie Fleming
Technical:	Hans Dietrich Faulhaber
Bylaws / Operating Guide:	John Bigham and Jim Neison
Web Management:	Jeffrey Parnell

If you are interested in volunteering for service on any of these committees or if you have any ideas you would like to discuss with committee chairs— do not hesitate to call!

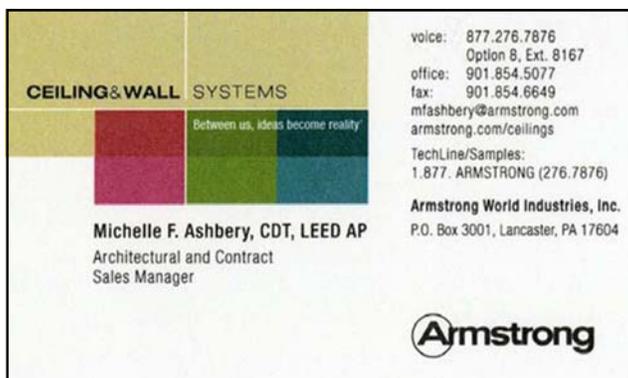
Anniversaries

The following members have anniversaries this month:

Shirley Clark	02/01/91	28 Years
Carl Drennan	02/01/80	39 Years
Dennis Elrod	02/28/18	1 Year
Billy Martin III	02/28/18	1 Year
Susan Tang	02/29/16	3 Years
Gary Wagoner	02/01/89	30 Years

THANKS FOR YOUR PARTICIPATION!

Congratulations on your anniversary and thanks for participating!!



CEILING & WALL SYSTEMS

Between us, ideas become reality

Michelle F. Ashbery, CDT, LEED AP
Architectural and Contract
Sales Manager

voice: 877.276.7876
Option 8, Ext. 8167
office: 901.854.5077
fax: 901.854.6649
mfashbery@armstrong.com
armstrong.com/ceilings

TechLine/Samples:
1.877.ARMSTRONG (276.7876)

Armstrong World Industries, Inc.
P.O. Box 3001, Lancaster, PA 17604



Change Orders: *do not be afraid* by Hans Dietrich Faulhaber, Architect, CSI, CDT

This is a brief introduction to what a Change Order is and how it is processed. The reader is encouraged to further their knowledge of this subject by referring to the Construction Contract Administration Practice Guide published by CSI.

There is probably no other term in the construction process that has a greater impact on the construction team than the term “Change Order”. To the designer, there may or may not be some level of culpability on his part for the necessity of the change order. He worries. To the contractor, this may mean additional money or additional time to complete the work. He sees a profit opportunity and potentially more time to complete the project or if the work schedule is fixed he may see a need to adjust the work force. To the owner, a change order could mean that additional funds or time may be required to finish the project. He’s not happy with anybody. All of the players in the construction process are affected by this term to varying degrees.

By definition a Change Order is: “A written order to the contractor signed by the owner and the architect, issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time as originally defined by the contract documents...” (*Dictionary of Architecture & Construction*, Second Edition, Edited by Cyril M. Harris).

Change Orders are found in Article 7 of AIA document A201, General Conditions of the Contract for Construction. This article outlines various changes to the contract and instruments with which those changes are to be carried out. For a particular project, modification procedures are outlined in *MasterFormat* Specification Section 01 20 00 – Price and Payment Procedures.

In theory, a change order is processed in the following manner. A need for a modification to the contract requirements becomes apparent, typically by an unforeseen site condition or an item of work being inadequately documented in the contract documents, or an owner decision to make a change to the Work. In the event that the modification is a change in the design, or a change in the amount of contract time, the contractor will issue a Request for Interpretation (RFI) for clarification. Clarification by the architect does not automatically mean that a change order is required. In cases where there is no requirement for a change in time or money, the architect can simply respond to the RFI or issue an order for a minor change in the work, sometimes referred to as a “field order” or Architect’s Supplemental Instructions (ASI).

Assuming that the modification will require additional work or time or both, and is not simply clarification of the documentation, the architect will issue a Proposal Request to the contractor that will clearly and completely outline the contemplated change. The contractor will then respond with a proposal or Change Order Request (COR) that will provide the cost of materials and labor, broken down in sufficient detail for the architect to review and confirm. After the architect reviews the proposal he will submit a formal recommendation to the owner regarding acceptance and payment. In theory this would take place in 48 hours or less.

The reality is that it takes a lot longer to process the change than scenario outlined above will allow. As we all know, most projects under construction today are time critical. As a consequence contractors are often asked to proceed with the modification via a Construction Change Directive and to negotiate costs or time extensions at a later date. This is precisely because of the time it will take to gather all of the pertinent information related to the change, quantify the materials and then assign costs to those quantities.

CONTINUED ON PAGE 10

Change Orders: *do not be afraid* - continued

CONTINUED FROM PAGE 9

Typically, the Construction Change Directive will detail the method of payment. In the event that the contractor disagrees with the method of payment, the architect is charged with the determination of the method and adjustment of the contract sum. His determination is to be based on fair and reasonable expenditures or savings of those performing the work attributable to the change and will include a fair and reasonable allowance for overhead and profit in the event of an increase in contract sum or general conditions costs if there is only an increase in contract time. The goal is to maintain the construction schedule, not to impede the contractor's progress and to provide assurance to the contractor that equitable payment will be forthcoming.

Many owners recognize the potential for contract modifications through the life of the construction contract and include a monetary contingency as an allowance in the contract documents. When a contemplated change is affected the allowance can be drawn against on next application for payment after going through the change order process. The amount of the contingency is founded on historical experience and usually based on a percentage of the construction contract.

Modifications to the construction contract are simply going to happen – they are a fact of construction life. There are three methods of dealing with changes in the work: Change Order, Construction Change Directive, and orders for minor changes in the work, or ASI. All three have distinct and binding implications to the builder's contractual obligations.

Not surprisingly, the authors of the standard construction contracts recognized this fact and provided a mechanism to affect changes to the contract both in time and money. As long as there are human beings designing and constructing the built environment, there will be change orders. After all, when was the last time that you looked at a perfect set of contract documents?

Hans Dietrich Faulhaber, Architect, CSI, CDT
The University of Tennessee



January Program Report

by B.J. Agnew Brillard, AIA, CSI

A presentation on the new University of Memphis Basketball facility was given by Jason Weeks, AIA with LRK. Weeks is a graduate of the University of Memphis and shared his passionate work on the project by taking the audience on an engaging trip through the eyes of a basketball recruit.

Who's who of the Design and Construction Team

- * Owner: U of M
- * Architect, Landscaping, Interiors: LRK
- * Mechanical & Plumbing: OGCB Incorporated
- * Electrical: Liles Engineering
- * Structural: Burr & Cole
- * Consultant: AECOM (company that partnered with LRK on FedEx Forum)
- * Contractor: Linkous Construction

The new facility is located on the University's South Campus. The design team studied the conditions of the existing facility, opened in 2000. By understanding the challenges of sub-par amenities and learning the spatial requirements of the needed programmed spaces, the team derived solutions to create a facility that would entice a recruit to devote his talents to the university. The design team toured competitor's facilities across the nation with the goal of designing a facility to compete against top tier schools in the recruiting process. The design team had to work through design input from 3 different coaches throughout the design and construction period (Pastner, Tubby, & Penny Hardaway).

Project Goals:

- * Create a top 5 student athlete training facility.
- * Get all basketball operations under one roof.
- * Continue the sports district on the South Campus – front door to Getwell Road.
- * Maintain U of M design standards and characteristics.
- * Setup building infrastructure so that it can be gifted to the U of M upon completion (foundation project).

Players have a secured parking lot on the back side of the building with their own biometric access. By using their fingerprint to gain entry, their schedule or any special notifications for that specific player will be activated, such as "see the coach before starting your weight training". One important part of the facility is that the players are no farther than 80 feet from a hydration station.

The first stop on our tour was the weight room with beautiful natural light and the ability for players to utilize the

CONTINUED ON PAGE 12

January Program Report - continued

CONTINUED FROM PAGE 11

sound system in this area with their own music. Of course the weight training coach whose office is near by can override the system if needed. Next we took a walk down Motivation Hall where the players can read pre-approved supportive tweets from fans along the ticker. We then arrive at the Oculus at the end of the hall where the players kits (Shoes, shorts, shirts, etc.) for away, home and alternate uniforms are on display. The lighting in the entire building is Lutron systems with LED lights throughout, and has a centralized lighting control system. Imagine the coaches walking a recruit and dimming all lights throughout the building except for those in the oculus where it glows to help those recruits imagine themselves in the kits they are viewing.

We then continue into the locker rooms, where the lockers are state of the art with proper ventilation and a bench that rallies around an interactive screen and white boards for the coach to use with his players. Locker rooms can sometimes come with unsightly or smelly drawbacks while waiting on staff to start the laundry routine. The design team considered all these details and kept the guts of the building operation supporting the players hidden, yet insured the staff performing the laundry duty had more than adequate space and utilities. From the lockers, players can plug in their phones and pick a shower to play their own music while their teammate in the next shower over can listen to his own music undisturbed. This technology is a “nothing-but-net” shot for players.

Moving on there is a quiet room adjacent to an audio visual/ team theater for players to use. There is also a team rec room with video games and pool tables. Onwards we enter the Food area which offers dining options in a naturally lit area with high top tables or booths. The food service has direct access for ease of deliveries to get the players nourishment. From the food area you have direct views into the practice court. The design team did a great job executing this project successfully. The gym was off limits for 3 weeks to install and finish the court, which was a scheduling piece they had to work around. The Connor Sports VIP wood floor system which exceeds DIN 18032 201 standards for ball rebound, shock absorption, vertical deflection and area of deflection, minimizes impact injuries. This flooring system needed detailed coordination to allow for the slab depression for installation so there is a seamless transition onto the court. Players considering Memphis see the appeal of playing games at the FedEx Forum on an NBA court, but they now, in this new facility, get to also practice on an NBA caliber floor! This state of the art floor has less wear and tear on their joints and prepares players to be a step ahead of their opponents by helping to take care of their bodies.

After practicing on the court, the players move on to the rehab/training room (Fun fact: the trainer has been the same through all three of the most recent coaches). The trainer has access to a hydrotherapy room with regulated humidity, with hot and cold pools, and a pool with a treadmill in the bottom as well as video cameras for observation of a player’s movements, minus the weight of their bodies, through assistance of water buoyancy. There is a state of the art video editing room alongside the coaches offices, which overlook the court which is another important goal of connectivity the design team aimed to provide. Some of the last stops on our journey were the study hall area with images of successful student-athletes, which always seems to be a hit with the parents. Traditions Hall displays special team achievements, important players, etc. to share with recruits.

One of those important players originally from Memphis, played professionally and now is the team’s head coach, Anfernee Hardaway aka Penny. This facility helped him land some top tier recruits such as 5-star ranked James Wiseman. This highly controllable and interactive building has attracted other schools to come and tour so they can see what is attracting recruits. LRK and team on this project where quite successful and we appreciate Mr. Weeks taking the time to share with our membership.

**B.J Agnew Brillard, AIA,CSI
Flintco, LLC**

CERTIFICATION

Become Certified! Take the CSI Certification Exams!

CDT-Construction Document Technologist

CCCA-Certified Construction Contract Administrator

CCS-Certified Construction Specifier

CCPR-Certified Construction Product Representative



Read the
Construction Specifier Magazine
On Line at csinet.org
Or get your copy by
joining CSI

Current Dempsey B. Morrison Scholarship Recipients



Scholarship Fund

00 01 01 PROJECT TITLE PAGE

Dempsie B. Morrison Scholarship Fund

2019 - 2020 Campaign | July 2018 - January 31, 2019

01 11 00 SUMMARY OF WORK

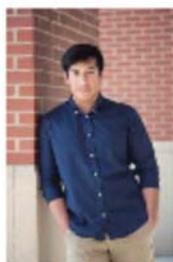
Dempsie B. Morrison, Jr., FCSI was a practicing architect, specifier, and teacher deeply involved in the CSI Memphis and National chapters. The CSI Memphis Chapter continues to honor his memory by awarding the Morrison Scholarship to University of Memphis Architecture students that show exemplary performance in academics as well as involvement within the CSI Student Affiliate.

Awarded each year since 1979, the Dempsie B. Morrison, Jr. Scholarship is funded in partnership with the University of Memphis. Contributions collected by the CSI Memphis chapter are matched and two students receive full tuition for the academic year. With your support, CSI Memphis will award two scholarships in May of 2019 to students who will continue to honor the spirit of Dempsie B. Morrison, Jr.

Congratulations to the 2018-2019 Scholarship recipients:



Christen Ayoub



Jason Ontiveros

01 35 00 SPECIAL PROCEDURES

Please join us in celebrating the legacy of Dempsie B. Morrison by donating to the Scholarship Fund. Thank you for your continued support; your generosity is greatly appreciated by CSI Memphis and all past, current, and future Scholarship recipients.

DEMPSEY B. MORRISON SCHOLARSHIP FUND



Scholarship Fund

00 01 01 PROJECT TITLE PAGE

Dempsey B. Morrison Scholarship Fund

01 30 00 ADMINISTRATIVE REQUIREMENTS

Please fill out the following form or donate online at <http://www.csimemphis.org/>

Levels of Participation (please select one):

- \$500+ Diamond
- \$400 Platinum
- \$300 Gold
- \$200 Silver
- \$100 Bronze

Name: _____

Address: _____

Email: _____

Memorial? Please provide an address for the acknowledgement:

Please make your tax deductible donation check payable to:
Dempsey B. Morrison Scholarship Fund, Inc.

Mail form and check to:
Farrell-Calhoun Paint, Attn: Julie Fleming
221 E. Carolina Ave,
Memphis, TN 38126