

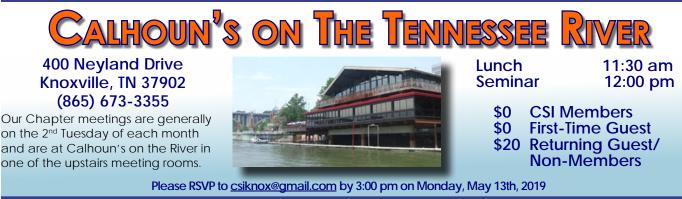
Presented By: John M. Lindahl, Deposition Science And Technology Group at ORNL lindahljm@ornl.gov (865) 241-8612



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Big Area Additive Manufacturing at DOE's Manufacturing Demonstration Facility at ORNL was used to 3D print molds that were needed to cast the precast concrete facade of a 42-story tower in New York City. Image credit: Oak Ridge National Laboratory



ORGANIZED SEPTEMBER 1958 - CHARTERED MAY 1959

THE KNOXVILLE CHAPTER MEETS ON THE SECOND TUESDAY OF EVERY MONTH. GUESTS ARE WELCOME!



CONSTRUCTION SPECIFICATIONS INSTITUTE

CSI KNOXVILLE IS A

MEMBER OF THE CSI

**GULF STATES REGION** 

THESPECK Editor

Stacy Flick Colbaugh - Editor scolbaugh@lewisgroup.net THESPECK is published monthly by the Knoxville Chapter of the Construction Specifications Institute. Readers are encouraged to submit articles and images of the construction industry interest for our membership. All submittals should be sent via e-mail in a typical file format, such as .pdf, .docx, or .jpg Please verify the accuracy of the information such as correct dates, spelling, and grammar. Deadlines are the 25th of each month.



### KNOXVILLE CHAPTER: AUGUST 2019

Knoxville Chapter

- **50 PROFESSIONAL** 
  - **5 EMERGING PROFESSIONAL**
  - **4** STUDENT
  - **2 E**MERITUS
- 2 Retired
- 63 TOTAL

### CALENDAR OF EVENTS AUGUST 2019

- 06 <u>CSI Board Meeting</u> Tuesday, August 6th, Lunch 12:00 pm - 1:00 pm at Lewis Group Architects 6512 Deane Hill Drive, Knoxville, TN 37919. Contact: scolbaugh@lewisgroup.net
- 13 <u>CSI Chapter Meeting</u> Tuesday, August 13th, Lunch 11:30 am - 1:00 pm at Calhoun's on the River. "3-D Printing the New Domino Sugar Building" Presented by John Lindahl, Deposition Science And Technology Group at ORNL. RSVP to csiknox@gmail.com

### SEPTEMBER 2019

- 03 <u>CSI Board Meeting</u> Tuesday, September 3rd, Lunch 12:00 pm - 1:00 pm at Lewis Group Architects 6512 Deane Hill Drive, Knoxville, TN 37919. Contact: <u>scolbaugh@lewisgroup.net</u>
- 10 <u>CSI Chapter Meeting</u> Tuesday, September 10th, Lunch 11:30 am - 1:00 pm at Calhoun's on "Understanding Structural Masonry 2019" Presented by James Cain, Executive Director, Southeast Concrete Masonry Association. CEU Overview: 1LU HSW RSVP at csiknox@gmail.com
- 26 <u>CSI Lunch & Learn</u> Thursday, September 26th, 11:45 am at East Tennessee Community Design Center WATE 6 Carriage House "Brick 101" Presented By Michael Tyson from Whitacre Greer RSVP at <u>csiknox@gmail.com</u>



### XVI Annual CSI Golf Tournament

Wear your finest fancy pants, shorts, or skirt and hit the "Dance Floor" with us. Learn new swing techniques, win some cash prizes, eat, drink, and do some 'Bogey"! Date: October 25, 2019 Time: 1:00 PM Tee Time

#### Lunch: Served at 11:30 AM Egwani Farms Golf Course 3920 S Singleton Station Pd

3920 S Singleton Station Rd Rockford, TN 37853





# THE PRESIDENT'S MESSAGE

## PRESIDENTIAL REPORT - AUGUST 2019

Mr. Geoffrey Cavalier, CSI, Assoc. AIA, NCARB CSI Knoxville Chapter President cavaliergeoffrey@gmail.com



I am anxious and excited to speak to the entirety of the CSI Knoxville chapter for the first time

as president. CSI has been an incredible gift for me and I look forward to continuing the great work that is done every year in this chapter. It is bittersweet following up the current past-president, Aaron Miller, because of his successes in not only maintaining the chapter, but also increasing membership. He reaffirmed my understanding that CSI Knoxville is a well maintained machine. It has so many committed board members that either have long standing positions or are volunteering for new responsibilities every month and year. This is a resilient and thriving organization.

My primary goal is to keep this machine running. We have many successful, long running events & programs that I want to maintain like the monthly meetings and lunch-n-learns, and the annual golf tournament and product show. I want to make sure that this year is successful, while also thinking years ahead. The work the board will be doing this year will likely not be flashy or monumental, but it will make the chapter more efficient in years to come.

I want to say thank you to Suzan Jordan for planning & hosting the CSI Fourth of July party again this year. It is always a great way to relax, have fun, and get to know your fellow CSI members better. I look forward to the Christmas party in December which will offer a similar opportunity to all CSI members and their loved ones.

The University of Tennessee starts classes later this month. The CSI Knoxville Student Chapter will be starting their meetings back up and I intend for the professional chapter to be more active and present in their activities. We have so much to offer the student chapter when it comes to mentorship. I hope that everyone would consider how you or your business could assist with introducing these students to the construction industry considering the limited experience in building design they receive at the college. If you have any ideas or are interested in attending a student chapter meeting, contact our new Academic Affairs chair (and new member) Brian Sickles at brian.sickles@ssainc.com .

I hope you will be able to make it to the upcoming chapter meeting at Calhoun's on the River on August 13th, where John Lindahl, a technical professional in the deposition science and technology group at ORNL, will walk us through the process of 3D printing the Domino Sugar building in Williamsburg, Brooklyn, New York.

Mr. Geoffrey Cavalier, CSI, Assoc. AIA, NCARB CSI Knoxville Chapter President cavaliergeoffrey@gmail.com



## **CSI HIGHLIGHTS**

Summary from July Planning Meeting By Ms. Susan Davis, RA, CSI, CDT, PMP CSI Knoxville Chapter Secretary

Please invite guests to the membership meetings! The board is considering incentives for visitors. Also, as a member, remember we miss you when you don't participate. If you can't make membership meetings, consider some of our other events. Your chapter needs you!

Our membership is increasing, thanks to you! Remember to renew your membership and invite your colleagues to join CSI!





**EDUCATION:** October 9-11, 2019 | **EXHIBITS:** October 10-11, 2019 National Harbor, MD, USA | Gaylord National Resort & Convention Center

**CONSTRUCT 2019 REGISTRATION** 

### PRESENTATION SUMMARY

### **3D PRINTING SHAPES BUILDING INDUSTRY**

Image credit: Oak Ridge National Laboratory

Additive manufacturing, or 3D printing, is a wide field that is constantly advancing. Over recent years it has become more and more related to buildings and construction. This includes leveraging additive manufacturing to improve current construction methods as well as enabling new construction methods. This presentation will cover a general introduction to additive manufacturing. Recent projects will also be looked at including using additive manufacturing to reduce costs in precast concrete, and recent developments in concrete 3D printing. This presentation will mostly focus on work done at Oak Ridge National Laboratory's Manufacturing Demonstration Facility, but will include current work from others as well.

• Additive manufacturing can enable new designs and construction methods

Additive manufacturing can reduce waste streams

• It has the potential someday to increase safety in construction by automating more of the process

• Additive manufacturing has the potential to lower costs in some areas



Image credit: Oak Ridge National Laboratory





Image credit: Oak Ridge National Laboratory



Image credit: Oak Ridge National Laboratory

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# BIOGRAPHY

## John M. Lindahl

Deposition Science And Technology Group at ORNL Image credits: Oak Ridge National Laboratory

John Lindahl is a technical professional in the deposition science and technology group at ORNL. He has 6 years of experience in applied research and development for discontinuous fiber composites. His main focus in this area is



related to large-scale extrusion deposition additive manufacturing (AM) of polymer composites. His contributions over the past 6 years have led to multiple patents, R&D 100 awards and publications for materials, process and application development. He currently is the technical lead for large-scale extrusion deposition AM of thermoset materials, where himself along with his team are innovating technology and creating new supply chains by co-developing the world's first system developed to use these types of materials.

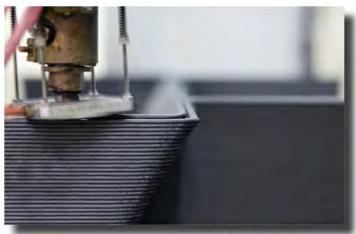


Image credit: Oak Ridge National Laboratory

John Lindahl 2350 Cherahala Blvd Rm 338-33 Knoxville, TN 37932 Cell: (865)335-0661 <u>lindahljm@ornl.gov</u>





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# HINDSIGHT

### PHOTOS FROM JUNE AWARDS BANQUET & 60TH ANNIVERSARY CELEBRATION

Photos by Ms. Stacy Flick Colbaugh, AIA, CSI, CDT scolbaugh@lewisgroup.net and Ms. Suzan Jordan, CSI, CCPR, CDT suzanwjordan@yahoo.com











MEMBER EMERITUS

Paul Pierson, CSI For Membership Emeritus

For your long and continuous service to the Construction Specifications institute and the isogeway of your membership, this document is to certify that you have reached the status of Member Emerities. This source is presented to you are hits elevanth day of Juna, 2019.

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#### THE MILLER EULER MEMORIAL AWARD

#### Stacy Colbaugh, AIA, CSI, CDT For Outstanding and Continual Service as Chapter Publisher

This award is given to a person who has rendered outstanding and significant service to the Knoxville Chapter of CSI over a long period of firme, honoring the work that Miller Euler did on behalf of the Chapter as our first President and creater and editor of the Chapter's newsleter, the SPECK For your long time role in providing constant information to the Chapter and being the primary communicator to its membership.

This award is presented to you on this eleventh day of June, 2019.

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#### THE ED BANKSTON MEMORIAL AWARD

Katherine Proctor, RA, FCSI, CDT For Exceptional Service and Commitment to the Chapter

This award is given to you for having great enthusiaam, excitement, and persistent commitment to the Knowville Chapter of CSI, as previously shown by our dear friend Ed Bankston. For your role in providing continual support and guidance to the Chapter, and being the Chapter's constant resource for many years.

This award is presented to you on this eleventh day of June, 2019.

84 Smith CSI





### CHAPTER OUTSTANDING SERVICE AWARD

William Dunklin, RA, CSI, NCARB For Outstanding and Exceptional Service as Programs Chair

For your outstanding and exceptional service in planning the programs for the Knoxville Chapter of CSI for the fiscal year of 2018-2019, and for your never say quit attitude, dedication, and drive even is the face of last-minute modifications, adjustments, and drastic changes.

This award is presented to you on this eleventh day of June, 2019.

iel Smith, CS

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#### THE GUNNAR KRAFT SPECIAL MERIT AWARD

#### Suzan Jordan, CSI, CCPR, CDT For Exception al, Diligent, and Steadfast Service to the Chapter

Awarded for exceptional service to the Knoxville Chapter and Gulf States Region of CSI and for your diligent and steadfast service to the CSI organization and its mission. For your commitment in providing, whatever is needed and being a constant resource for guidance, service and support to the Chapter.

This award is presented to you on this eleventh day of June, 2019.

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### CHAPTER EXECUTIVE AWARD

Samer Shatara, CSI, CDT For Exceptional Service as Membership Chair and Director

For your outstanding and exceptional service in consistently reaching out to potential new members for the Knoxille Chapter of CSI for the fiscal year of 2018-2019. For your role in making the Knoxille Chapter the fastlest growing Chapter with the most membership growth within the Gulf States Region.

This award is presented to you on this eleventh day of June, 2019.

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ent of the design and construction industry

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### CHAPTER SPECIALTY AWARD

Josh Brock, CSI For Exceptional Service as the Product Show Chair

For your continual and personal dedication in organizing and leading the annual ETN Building Products Show for the Knoxville Chapter of CSI for the fiscal year of 2018-2019, and for maintaining one of the Chapter's leading fund-taising programs each year.

This award is presented to you on this eleventh day of June, 2019.

84 Daniel Smith, CSI

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#### CHAPTER EDUCATION AWARD

#### Gary Bergeron, BS, CSI, ASHRAE, ASPE, USGBC For Exceptional Service as Technical Chair and Director

For your never-ending dedication, continual support, and exceptional service to the Knoxville Chapter of CSI serving as the Technical Chair for the fiscal year 2018-2019. For your efforts in keeping the Chapter up to speed on the technical side of things and your consistent drive in educating the young and upcoming professionals of tomorrow.

This award is presented to you on this eleventh day of June, 2019.

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#### **CHAPTER PRESIDENT'S AWARD**

#### Bryan Sim, CSI-S For Exceptional Service as Student Chapter President

For your dedication and exceptional service to the Knowille Student Chapter of CSI serving as President for the fiscal year 2018-2019. For your role in rebuilding and re-energizing the Student Chapter and continual outreach building the base for future student members.

This award is presented to you on this eleventh day of June, 2019.





#### **CHAPTER CERTIFICATE OF APPRECIATION**

Geoffrey Cavalier, CSI, NCARB For Exceptional Service as President-Elect

For your dedication, continual support and exceptional service to the Knoxville Chapter of CSI serving as President-Elect for the fiscal year 2018-2019 and for bringing freeh new ideas and perspective to the table for discussion and consideration.

This certificate is presented to you on this eleventh day of June, 2019.

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#### CHAPTER CERTIFICATE OF APPRECIATION

#### Susan Davis, RA, CSI, CDT, PMP For Exceptional Service as Chapter Secretary

For your dedication, continual support and exceptional service to the Knoxville Chapter of CSI serving as the Chapter Secretary for the fiscal year 2018-2019 and keeping the Chapter documented, organized, on task, and governed by the Chapter ByLaws.

This certificate is presented to you on this eleventh day of June, 2019.



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### CHAPTER CERTIFICATE OF APPRECIATION

### Daniel Smith, csi

For Exceptional Service as the Awards Chair

For your dedication, continual support and exceptional service to the Knoxville Chapter of CSI serving as the Awards Chair for the fiscal year 2018-2019 and keeping the Chapter on track and on task in striving and achieving the Outstanding Chapter Commendation Award e ach year.

This certificate is presented to you on this eleventh day of June, 2019.

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#### CHAPTER SPECIALTY AWARD

#### Wes Crow, csi For Exceptional Service as the Golf Tournament Chair

For your continual and personal cadication in organizing and leading the annual CSI Golf Tournament for the KnoxVie Chapter of CSI for the Riccal year of 2015-2019, and for maintaining one of the Chapter's leading fundramising programs each year.

This award is presented to you on this eleventh day of June, 2019.



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#### CHAPTER CERTIFICATE OF APPRECIATION

Donna Covert, CSI, CDT For Exceptional Service and Decompressive Fun Thinking

For your continual support and exceptional service to the Knoxville Chapter of CSI as a Director, lesging the Chapter fun, and providing discompressing the ughts and outside of the box i feas an resetting out to our current membership, as well as potential new members.

This certificate is presented to you on this deventh day of June, 2019.

RABOR MENT ANA COLOR



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# "FRIEND OF THE CHAPTER" AWARD

East Tennessee Community Design Center For Consistent Support and Educational Accommodations

For the continual generoally and support to the Knowille Chapter of CGI for the feed year 2016-2010 In providing accommodations for the Chapter's monthly Lunch in Learn Educational Programs.

This award is presented to you on this eleventh day of June, 2019.

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CHAPTER CERTIFICATE OF APPRECIATION

Marni Redmond, csi For Exceptional Service as Director

For your continual support and exceptional service to the Knowlie Chapter of CSI as a Director for the fiscal year 2016/2019. For being willing to jump in the deep end as a new member and serve on the Beard and providing your fine and knowledge by serving an force committees and enhancing the benefits of the Daster.

This award is presented to you on this eleventh day of June, 2019.

R ANDIN MAR ANA COLOT Denie Brillin CBi

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CHAPTER PRESIDENT'S AWARD

Whitney Kaul, CSI, LEED GA For Exceptional Service as Chapter Treasurer

For your dedication and exceptional service to the Knoxville Chapter of CSI serving as Chapter Treasurer for the fiscal year 2018-2019. For your role in maintaining a strong financial base from which to operate the Chapter and providing timely and accurate financial information to the Board

This award is presented to you on this eleventh day of June, 2010.

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60th Anniversary

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2019 C	onstruction Seminar
	e of Construction



Half-Day Morning Seminar

KNOXVILLE 09.12.19 | FOX DEN COUNTRY CLUB

NASHVILLE 09.20.19 | HILLWOOD COUNTRY CLUB



# HINDSIGHT

### PHOTOS FROM CSI KNOXVILLE ANNUAL SUMMER FUN PARTY

Photos by Mr. R. Aaron Miller, CSI, CDT, AIA amiller@mhminc.com















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# CSI GULF STATES REGION LEADERS – 2019-2020

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# 2019-2020 KNOXVILLE CHAPTER CSI LEADERS



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