Newsletter
March 12th, 2019 meeting at University of Memphis

This meeting is held in the Tennessee Ballroom

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Presidents Corner

Chapter Members,

Welcome back, and happy March! I hope everyone is doing well with all this up and down weather we’ve been having. We wanted to let you all know that we have selected a date for our golf tournament (Friday, April 26th), so please come out and support the chapter while having a little bit of fun. This is our big chance to raise money for our Memphis chapter.

Information for sponsorships and entry information can be found in the newsletter.

Sincerely,

Daniel Longserre, PE
President
ASHRAE Memphis Chapter.
High-Temperature Heating & Ventilation in High Bay Buildings

For many years, there has been little improvement in the heating efficiencies in the US. This presentation details a recent field study that demonstrates how High Temperature Heating & Ventilation (HTHV) technologies can save 40-70% gas savings compared to other common heating technologies. If widely adopted to replace traditional heating systems and/or heating and ventilation systems for Commercial & Industrial Warehouse/Distribution applications, HTHV technologies would have a significant impact on overall energy in the U.S.

Dave Binz
Director of Engineering
Cambridge Engineering

Dave is the Director of Engineering for Cambridge Engineering. Dave holds a Bachelor of Science in Chemical Engineering from the University of Notre Dame and has extensive experience in the High Efficiency HVAC market. He began his career with Carrier Corporation serving the large commercial and industrial market with engineered solutions and joined Cambridge Engineering in 2014. He is a member of ASHRAE Technical Committee TC9.2 – Industrial Air Conditioning and Ventilation. He now travels North America speaking to engineers, building owners, and utilities on next generation heating and ventilation technologies.
2018 - 2019 ASHRAE Memphis Calendar:

March 12th Meeting: High Temp Heating & Ventilation
   Meeting & Presentation by David Binz in the Tennessee Ballroom
April 9th Meeting: Optimized Chilled Water Systems Designs & Building Efficiency
   Meeting & Presentation by Brett Monteleone in the Tennessee Ballroom
ASHRAE Memphis Golf Tournament
   April 26th, 2019 at Wedgewood
May 14th Meeting: Filtration Optimization
   Meeting & Presentation by Rick Brundage in the Tennessee Ballroom
Current Job Listings:

Thompson Engineers, Inc., a nearly seventy-year-old Memphis firm, is looking for an experienced hvac designer/engineer, PE license preferred, competent in Revit. We are also accepting resume’ submissions for an experience plumbing designer.

Please email resume’ to info@thompsonengineers.com

Current Job Listings, provided by AEC Recruiting:

1001MTNF- We have a Memphis AE firm looking for a Mechanical Engineer (MEP) with 5-10 years’ experience (PE preferred). This candidate should have strong design and project management experience and will serve as the lead Mechanical Design Engineer. This candidate will manage and assist with work on all phases of various mechanical engineering projects including design development, preparation of presentation drawings and specifications, design review, coordination and correlation of construction drawings. CAD software experience should include Revit MEP and ACAD.

1003MTNF- We have a Memphis AE firm looking for an Electrical Engineer (MEP) with 5-10 years’ experience (PE preferred). This candidate should have strong design and project management experience. This candidate will manage and assist with work on all phases of various mechanical engineering projects including design development, preparation of presentation drawings and specifications, design review, coordination and correlation of construction drawings. CAD software experience should include Revit MEP and ACAD.

1007MTNF- We have a Memphis AEC firm looking for an Electrical Engineer or Designer (MEP) with 5+ years’ experience. ACAD and Revit MEP experience required.

For more info contact Darren Bobbitt: dkbobbitt@aecrecruiting.net
28th Annual Golf Tournament
April 26th, 2019
Four Person Scramble

Benefiting Your Memphis ASHRAE Chapter with a portion donated to ASHRAE Research Promotion, including the JR Anderson* Travel Award and the JR Anderson Building Commissioning Certification Award.

Sponsorship Opportunities:

- **Title** - $2,500
  - *Includes two teams

- **Lunch** - $1,000
  - *Includes one team

- **Drink Cart** - $1,000
  - *Includes one team

- **Hole** - $250

- **Longest Drive** - $250

- **Accurate Drive** - $250

- **Closest to Pin x 4** - $250 ea

Winner takes home a prize with these mini-games!
- **Putting Contest** - $500
- **Sink the long putt to take home a prize!**
- **Water Wedge Shot** - $500
- **Can you chip it into the floating target?**
- **Marshmallow Swing** - $500
- **Test your long drive skills on a marshmallow!**

*JR Anderson was a well-known member of ASHRAE, particularly for the Memphis Chapter. He gave of himself tirelessly – to colleagues and students, to ASHRAE and other organizations. JR loved helping young people – whether in school or early in their careers. The travel award would not only get the student to ASHRAE’s annual conference, but the recipient would also be paired up with a mentor for the duration of the conference, to provide additional assistance and knowledge. Through the Certification Award, a YEA (Young Engineer in ASHRAE) Member could earn their Building Commissioning (BCxP) certification which validates critical job knowledge, skills and abilities and enhances their reputation.

To register a team or claim a sponsorship contact:
Daniel Longserre  901.820.0820  |  dlongserre@allenhoshall.com
28th Annual Golf Tournament  
April 26th, 2019  
Four Person Scramble  

Benefiting Your Memphis ASHRAE Chapter with a portion donated to ASHRAE Research Promotion, including the JR Anderson* Travel Award and the JR Anderson Building Commissioning Certification Award.

Lunch begins at 11:00am  
12:30pm Shotgun Start  
$125.00/Participant

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Providing Prizes for First & Second Place in the First & Second Flight and Last Place!

Make Checks Payable to:  
ASHRAE Memphis Chapter

Total ________________

Send Checks to:  
Gorham/Schaffler, Inc.  
3095 Stonebrook Circle  
Memphis, TN 38116

To register a team or claim a sponsorship contact:  
Daniel Longserre  901.820.0820  |  dlongserre@allenhoshall.com
Nick Drane  
169 Roberta Drive, Memphis, TN 38112- 901-326-2993- ndrane@cbu.edu

**Education**

Christian Brothers University- Memphis, Tennessee, August 2015-present  

B.S. Mechanical Engineering- (Expecting Graduation: May 2019), Major GPA: 2.96

**Skills**

- Proficient in Microsoft Office  
- Efficient with Solidworks and PTC Creo Parametric 3.0  
- Capable of coding with MatLab, LabVIEW, Access, and Visual Basic  
- Completed projects using manufacturing processes  
- Ability to read and construct isometric and orthographic drawings  
- FAA part 107 license and ability to commercially operate drones

**Work Experience**

**Aldelano Engineering Intern**- Jackson, Tennessee, October 2018-present  

- Currently designing an environmental chamber to test a solar powered Watermaker  
- Researched topics including graphene batteries in solar applications, improving the life of produce, and government policies that apply to selling products internationally

**Grace Medical Engineering Intern**- Bartlett, Tennessee, June 2017-December 2018  

- Developed a system to document and design manufacturing fixtures  
- Conducted experimental test and wrote technical reports including IQ, OQ, and PQs  
- Using Solidworks created models and drawing for medical instruments, ear implants, and manufacturing fixtures

**Paid Research Study**-Christian Brothers University, January 2017-December 2018  

- Assisted in developing a flow bench  
- Currently using this flow bench to analyze and improve the efficiency of the volumetric flow rate of ionized air through various materials  
  o Constructed a poster that was presented at the Annual Meeting for the Electrostatic Society of America  
  o Published paper to the IESTOC 2019 journal

**Leadership**

**American Society of Mechanical Engineers**-Christian Brothers University, January 2017-present  

- **President** –April 2018-present  
  o Conducted the organization to ensure the professional goals were achieved  
  o Organized and lead officer meetings  
- **Secretary** –April 2017-April 2018  
  o Corresponded information to members regarding the upcoming chapter events and meetings

**Theta Tau Professional Engineering Fraternity**-Christian Brothers University, January 2016-present  

- **Events Coordinator**-January 2017-January 2018  
  o Assisted in the planning of CBU BUC-E Day to help foster interest in STEM subjects for future students  
  o Organized a First Lego League Qualifier with hundreds of participants at CBU  
- **Service Chair**- April 2016-December 2016  
  o Prepared events to benefit and raise donations for Habitat for Humanity
Andrew Ozanich  
1456 Wolf Hunt Drive  
Collierville Tennessee, 38017  
(901) 651-8928  
aozanich@cbu.edu

Education  
Christian Brothers University – Memphis, Tennessee  
**Bachelors in Mechanical Engineering**, GPA 3.89  
Honors Program, Dean’s List 2015-Current, Tau Beta Pi Engineering Honors Society  
Expected Graduation May 2019

Skills and Qualifications
- Skilled in Matlab Programming, CREO Parametric, Inventor Autodesk, AutoCAD Autodesk, MS Office
- Technician Radio License, FAA Part 107 Remote Pilot’s License
- Spent time shadowing a Senior R&D Engineer at Medtronic Spine and Biologics to tour the facility as well as experience the daily tasks and requirements of a R&D engineer

Relevant Work Experience
**R&D Engineering Intern**, National Guard Products/Jordan Aluminum, February 2018-Current
- Machine component designs for extrusion press to increase manufacturing uptime and safety
- Created machine design that saves the company $1,000 daily, approximately $250,000 yearly
- Caustic tank system design to increase capacity and improve DIE cleaning process
- CNC fixture design to increase fabrication efficiency
- New product testing and implement 3D printing model capability
- Patent Research
- Process implementation for new products
- Sales engineering quoting

**Senior Design Project**, Christian Brothers University, May 2018- Current
- Design of a modular, fixed-wing unmanned aerial system
- Design configurations for a number of flight modes and easy transition between configurations
- Design of fuselage and wings for high speed as well as long endurance modes of flight
- Medical delivery and survey camera flight system integration
- Design of both takeoff and landing systems
- Programming of on board flight systems

Leadership & Activities
Member of Theta Tau Professional Engineering Fraternity
**Treasurer**, January 2018-January 2019
- Create a budget for the Fraternity
- Collect dues of the members and pay National dues
- Create and manage a bank account for the Fraternity
- Head meetings and perform general leadership duties of an Executive Council Member

**Philanthropy Service Chair/Committee Head**, December 2016-December 2017
- Planned and led events associated with our philanthropy, Habitat for Humanity, as well as stayed in contact with our representative from Habitat for Humanity
- Planned and headed fundraising events for the fraternity
- Headed meetings for the Service Committee

Member of CBU Honors Program, August 2015-Current

Member of Tau Beta Pi Engineering Honors Society, September 2017-Current

Member of Alpha Chi Honors Society, January 2019-Current
Andrew Ozanich  
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References

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Academic Advisor  
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 ewelch@cbu.edu

Dr. Paul Shiue  
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Powell McCaleb

261 Bennett Rd Vaughan MS, 39179 | 662-571-7746 | powellmcc0315@gmail.com

Objective
To find a job that utilizes my communication, mechanical engineering, and business knowledge

Education

SENIOR | UNIVERSITY OF MISSISSIPPI
- Major: Mechanical Engineering
- Current Engineering GPA: 2.85
- Cumulative GPA: 3.21

2016-2017 | HOLMES COMMUNITY COLLEGE
- Major: Associate of Arts
- Phi Theta Kapa member
- GPA: 3.64

2014-2015 | DELTA STATE UNIVERSITY
- Gulf South Conference Honor Roll
- GPA: 3.14

GRADUATE 2014 | MANCHESTER ACADEMY
- Graduated with Honors
- Voted Mr. Manchester Academy
- GPA: 3.64

Skills & Abilities

COMPUTER/LANGUAGE SKILLS
- CIS 201: Expert knowledge in Microsoft Word, Excel, and PowerPoint
- Computer programming in C++ and Matlab
- Have taken 3 semesters in AutoCad design course and a semester in CREO design

LEADERSHIP
Delta State University Baseball       2014 - 2015
- Denis Harris Student-Athlete GPA Award
- Makamson Freshman Award

Manchester Academy Baseball       2010 - 2014
- All Conference 8th, Freshman, Sophomore, Junior, Senior
- Most Improved Player 8th, MVP Defense Freshman and Sophomore year, MVP Offence Junior, Team MVP Senior year
- District 2 AA MVP, Competed in MAIS All-star Game
Experience

SECRETARY | MCCALEB INSURANCE AGENCY | AUGUST 2017-PRESENT
- Take payments
- General filing
- Quoting and issuing auto policies
- Customer interactions

GOLF TECH | DICKS SPORTING GOODS | MAY 2016-AUGUST 2017
- General golf club maintained
- Worked in the pro shop, lodge department, and team sports department

FARM ASSISTANT | RUGBY SOD FARM | MAY 2015-AUGUST 2015
- Delivered sod to customers
- Drove farm equipment
- Handling daily farm activities