



# Vulcan Voice



## 2020-2021 BIRMINGHAM CHAPTER OFFICERS

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Home of  
Society President  
Billy R. Manning  
94/95  
George Jackins, PE,  
98/99



## March Newsletter

### Upcoming Events:

- March 8-10, 2021 – 2021 ASHRAE Virtual Design and Construction Conference  
<https://www.ashrae.org/conferences/topical-conferences/2021-virtual-design-and-construction-conference>
- March 31, 2021 – Caleb Haynes of Bernhard TME – *Designing for Operational Excellence: Intentional Design for Effective Operation and Maintenance*
- April 28, 2021 – 2021-2022 National ASHRAE President
- May 6, 2021 – Pinetree Country Club – ASHRAE Spring Golf Tournament  
<https://www.ptccalabama.com/>
- May 26, 2021 – Hoy Bohanon – “*Commissioning, Operating & Maintaining Air-to-Air Energy Recovery Systems*”

### Consider nominating a person for an ASHRAE Honors & Awards for Technology

<https://www.ashrae.org/membership/honors-and-awards/technology-awards-program-overview>

## 62<sup>nd</sup> Annual Engineering Awards for ECOB, February 2021

ECOB Foundation Scholarship Recipients	Noah Alexander, Roderick Wilson
UA Engr Students of the Year	Undergraduate: Jonathon Platt, Electrical and Computer Engineering Graduate: Katie O’Harra, Chemical Engineering
UAB Engr Students of the Year	Undergraduate: Krista Jackson, Biomedical Engineering Graduate: Diana Pizarro, Computer Engineering
Distinguished Service Award	James M. Hoagland, Jr.
Educator of the Year	Todd Freeborn
Young Engineer of the Year	Justin Hill
Engineer of the Year	Barbara Hattermer McCrary

Birmingham ASHRAE Web Site: <http://www.birminghamashrae.com/>



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**Caleb Haynes, P.E.**  
**Vice President**  
**Bernhard**

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## **MARCH MEETING: *Caleb Haynes of Bernhard TME Designing for Operational Excellence***

**Bio:** Caleb is a Registered Professional Engineer with more than twelve years of experience in the energy and architectural consulting engineering industry. He specializes in energy efficient design, commissioning, and operations for clients in healthcare and higher education. Caleb has been an active member of ASHRAE for 12 years; having served as past Chair of the Young Engineers in ASHRAE committee, and currently serves as voting member of SSPC 189.3 and non-voting member of SSPC 170. He is also an active member of the American Society of Healthcare Engineers (ASHE); currently serving on the ASHE Young Professional Taskforce and the 2021 PDC Conference Vice Chair. He has been the Principal in Charge for Bernhard's Birmingham, AL office since 2014, and currently serves as the Vice President of Development for Bernhard. He holds a Bachelor's degree in Mechanical Engineering from the University of Arkansas, Fayetteville, and holds Professional Engineering licensure in seven states.

### ***Topic: Designing for Operational Excellence: Intentional Design for Effective Operation and Maintenance***

The construction industry today is moving at a rapid pace to adopt new technologies and processes to streamline construction, eliminate waste, and deliver effective and efficient buildings to owners. Advanced building automation systems and the Internet of Things (IoT) movement are allowing our buildings to come to life as complex and technological beings that adjust and adapt to the ever-changing world; both environmental and internal. Advanced studies in the interaction between humans and their environment have shown strong correlations between environmental variables and the health and happiness of human occupants. Strong social and economic forces are shaping the movement to reduce the ill-effects that building environments and their occupants have on the environment, with net-zero energy and emissions reduction programs being successfully built and operated around the world. All these dominant themes have become key drivers in the industry approach to building planning, design, and construction.

The intersection of the advancement of building construction and operation technology with the shortage of skilled trades available and educated to adapt to those technology advancements is the perfect storm for the built environment. The disconnect between designed operational cost efficiencies and the realized under-performing results have led us to explore the gap between design and operations, and how we fill the gap to enable Operational Excellence.



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**ECOB Engineer  
Of the Year  
Barbara McCrary  
P.E.-AL, GA, MS, NCEES**

**Role:** President of HHB Engineers, P.C. since 2014, joined firm in 2006

**Education:** University of Alabama, B.S., M.S., Mechanical Engineering

**Experience and Accomplishments:**

- (1) 15 yrs of experience in Mechanical system design for a wide range of projects including the recent \$100M renovation to Bryant Denny Stadium, numerous other projects for U.A., U.A., GSA, historic building. experience and more.
- (2) McCrary embraces the challenges of finding the right balance between first costs, the needs of the Owner, energy costs and efficiency, and long-term maintenance considerations in system design.
- (3) McCrary has extensive experience managing prime Mechanical renovation projects for clients and building owners as the Prime AE, as well as on projects as consultant for Architects and other Engineers.

**Professional/Technical/Civic/Humanitarian Activities and Honors:**

- (1) Published multiple Peer-reviewed articles in ASHRAE Journal and ASHRAE Transactions
- (2) Speaks to professional society and college groups about engineering and energy efficiency
- (3) Inducted a Distinguished Fellow for the Dept of Mech. Engr., UA
- (4) UA Mech. Engr. Advisory Board Member
- (5) Active in a local professional group for women business owners, promoting and encouraging women entrepreneurs.



**ECOB Young Engineer  
of the Year  
Justin Hill, Ph.D.  
P.E.-AL**

**Role:**

Justin Hill is a Principal Engineer in Southern Company's Energy End-Use R & D Organization. His research focuses on intelligent buildings and their integration to the grid, along with developing valuation models for them. He has been involved with Southern Company's Smart Neighborhood initiative since its conception and is the technical lead for Georgia Power Smart Neighborhood. He has been in this current role since February 2012.

**Education:**

An Alabama native, Justin holds BS and MS degrees in Mechanical Engineering from the University of Alabama and a PhD in Interdisciplinary Engineering from the University of Alabama at Birmingham. He is also a licensed Professional Engineer in the State of Alabama.