





# SCHEDULE OF EVENTS



## **COCKTAIL RECEPTION**

5 p.m.

## **INVOCATION / DINNER**

6:30 p.m.

## **AWARDS PROGRAM**

7 p.m.

### **Welcome / Sponsor & Committee Recognition**

Mark Norris, MACE Chairman

### **Awards Presentation**

Ray Miller, MACE Awards Chair

### **Society Awards**

### **Discipline Awards**

### **Engineering Manager of the Year**

### **Industry Innovator**

### **Educator of the Year**

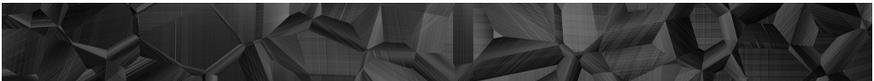
### **MACE-Raburn/USA Engineering Scholarship**

Dr. John Steadman, P.E., Dean College of Engineering, USA

### **Young Engineer of the Year**

### **Project of the Year**

### **Closing Remarks**





### **ASCE OUTSTANDING ENGINEER**

Mary Beth Sullivan, P.E.

Mary Beth is a graduate of The University of Alabama where she earned her bachelor and master's degrees in Civil Engineering. She has worked in the environmental field for over nine years in the public and private sectors. She is originally from Andalusia, Alabama, and moved to Baldwin County after beginning her career in Tuscaloosa, Alabama. Mary Beth currently works for Moffatt & Nichol as a Project

Manager. She manages coastal engineering and waterfront projects for mainly public sector clients. Mary Beth served as an ASCE Mobile Branch officer from 2015 – 2019 and is actively involved in planning the ASCE Alabama Section summer conferences. Mary Beth currently resides in Baldwin County, and she and her husband just welcomed their first child.



### **ASPE OUTSTANDING ENGINEER**

Barbara L. Turrens, DSc, P.E.

Barbara joined Austal USA in 2007 as a Project Coordinator. She was selected to assist in the implementation of Austal's Enterprise Resource Planning system which included an aggressive implementation of critical functionality and was completed on time and under budget. Shortly after the initial phase of the ERP implementation, Barbara was promoted to Business Process Manager. She and

her team facilitated two additional projects to implement more functionality within the system.

In 2013, she began her graduate studies in the Systems Engineering program at the University of South Alabama. As a result, she moved to the Engineering Department to continue her process-related work, while focusing on ship electrical subsystems, the basis of her dissertation research. In 2018, she received her Doctor of Science degree in Systems Engineering.

Barbara is now a Sr. Systems Engineer. She has managed several technology-based projects, and served as Austal's Project Lead for the NSRP Dynamic Change Awareness project where change management processes were mapped defining the most optimal support architecture that could be applied to any shipyard system infrastructure. Barbara is instrumental in consolidating and integrating many core systems used within Engineering at Austal USA.

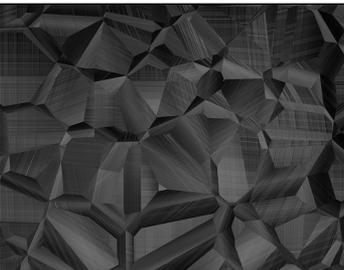




## **SAME OUTSTANDING ENGINEER**

Hubert Russell "Bo" Ansley

Hubert Russell ("Bo") Ansley serves with the US Army Corps of Engineers (USACE) as the Chief of Emergency Management Branch, Operations Division, for the USACE Mobile District, managing National Emergency and Natural Disaster activities. Mr. Ansley serves as a debris removal subject matter expert with numerous civil response deployments going back to Hurricane Andrew, Miami, FL, in 1992. He has trained over thirty percent of the Corps' active debris removal cadre. Mr. Ansley led the response and recovery of 2011 spring tornado event in Alabama, and volunteered to serve in the Northern Afghanistan District as an Emergency Manager in 2012. Most recently, Mr. Ansley's team led the Corps establishment of a Recovery Field Office in Puerto Rico after Hurricane Maria in 2017 and was a first responder for the Hurricane Michael debris removal mission in Georgia during 2018. He was the USACE Civil Responder of the Year in 2016.



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American Military Engineers

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ALABAMA SECTION

Mobile Branch



**Alabama Society of  
Professional Engineers**

*A state society of the National Society of Professional Engineers*



**AEROSPACE ENGINEER OF THE YEAR**

**Kody Broussard**

Senior Engineer | Airbus Americas, Inc.

Kody Broussard is a Senior Engineer at Airbus Americas, Inc. and has been working with the company for over seven years. He is a graduate of the University of South Alabama where he received his Bachelor of Science in Mechanical Engineering and his Masters of Science in Mechanical Engineering degrees.

He is an active member in his church, City Hope, where you can find him assisting people to their seats as an usher. Kody is the president of a local Toastmasters club that meets weekly to practice communication and leadership skills. Growing up in Foley, going to school in Mobile, and working in Mobile make him a local, so he enjoys being able to stay close to his roots while contributing to an international company like Airbus.



**CHEMICAL ENGINEER OF THE YEAR**

**Robert Cox, P.E.**

Chemical Engineer |  
Hargrove Engineers + Constructors

Robert Cox, P.E. is a Chemical Engineer with over 11 years of experience in process modeling and analysis, relief systems and steam boilers for industries including chemicals, oil refining, and pulp and paper. Robert received his B.S. in Chemical Engineering from The University of South Alabama, and now serves as a

Process Engineer IV at Hargrove Engineers + Constructors, where he is responsible for hydraulic analysis and modeling, process equipment analysis and simulations, pressure relief device analysis, technical equipment specifications, project lists, P&ID development, engineering report development, engineering calculations, and field surveys and support. He is a member of the AIChE Engineering Society and is a registered professional engineer in the state of Alabama and he is quickly becoming one of Hargrove's key subject matter experts in refining.

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**CIVIL ENGINEER OF THE YEAR**  
**William E. Wilkerson, Jr., P.E.**

Corporate Vice President, Senior Engineer |  
McCrary & Williams

William (Billy) E. Wilkerson, Jr. serves as Corporate Vice-President of McCrary & Williams, Inc. and Senior Engineer. Former Owner/President of the firm, Billy is a professional engineer with almost 50 years of experience. With an expertise in municipal utility infrastructure, construction administration, environmental services, and federal, state, local and private sectors, Billy is an active and committed full hands-on manager who coordinates and administers design engineering and construction surveillance services. Billy was awarded the PE in Construction and Private Practice Engineer of the Year in 1990 and 1992 from American Society of Professional Engineers and has also served as the ASPE state president.

Mr. Wilkerson and his wife Cathy have three children: Dean, Teresa, and Stacy along with two grandchildren. Billy loves to spend his time away from work traveling, spending time with his wife and of course, playing golf. He attended Louisiana Polytechnic Institute, where he received his Bachelor of Science in Civil Engineering in 1969. Billy is a licensed professional engineer in the states of Alabama, Florida, Mississippi, and Louisiana, and had professional affiliations with WEF, ASCE, AWWA, CSI and NSPE.



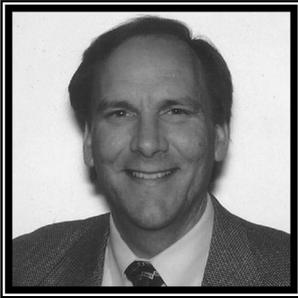
**ELECTRICAL ENGINEER OF THE YEAR**  
**Brad S. Felkner, P.E.**

Electrical Engineer |  
Hargrove Engineers + Constructors

Brad Felkner, P.E. has over 10 years of experience in electrical engineering and instrumentation for industrial, marine, chemical and refining industries. As the Refining Electrical & Instrumentation Engineering Coordinator at Hargrove Engineers + Constructors, Brad is responsible for leading the engineering team that supports Refining Projects - 12 E&I engineers who are his direct reports. Brad works closely with Hargrove's clients to assure project objectives are achieved on refining projects. He also has extensive experience with design engineering, specifying electrical equipment and instrumentation, design of detailed electrical systems, and Safety Instrumented Systems.

Brad has been a member of IEEE (Institute of Electrical and Electronics Engineers), participated in the ASNE (American Society of Naval Engineers) Electric Ship Design Symposium, and volunteers every year for Hargrove at the Jackson County (MS) Industrial Tradeshow. He is passionate about STEM (Science, Technology, Engineering, and Math) education and has assisted with several STEM related programs at Hargrove.





**MARINE ENGINEER/  
NAVAL ARCHITECT OF THE YEAR**

John A. Johnson  
Engineer | Ingalls Shipbuilding,  
A Division of Huntington Ingalls Industries

A native of Gulfport, MS, John Johnson has been a practicing engineer since 1984 and employed by Ingalls since 1993. While at Ingalls, Mr. Johnson has been a key part of the Advanced Ship Design team, developing designs for ships ranging from commercial

tankers to Navy corvettes and frigates to aircraft carriers. Mr. Johnson specializes in developing propulsion system designs and machinery arrangements for concept and preliminary designs. He is also the company's lead engineer for performing thermal analyses of intake and exhaust ducting for propulsion systems. Most recently, Mr. Johnson has been the lead propulsion engineer for the Ingalls FFG(X) and Heavy Polar Icebreaker design efforts, demonstrating the breadth and diversity of his skills and experience. He has been the recipient of several internal company awards.

A father of two, John enjoys playing guitar in his free time. He is active in his church, Christ United Methodist Church, where he serves in the Music Ministry (playing guitar, of course) and in the Youth Ministry. He is also an active supporter of Faith Academy, where he acts as a mentor for students interested in pursuing a career in engineering.



**MECHANICAL ENGINEER OF THE YEAR**

John P. Walks, P.E.  
Mechanical Engineer |  
Ingalls Shipbuilding,  
A Division of Huntington Ingalls Industries

Mr. Walks is a Mechanical Engineer at Ingalls Shipbuilding in the Research and Development Group. He has worked at Ingalls for 27 years. He has managed internally and externally funded research projects for 20 years. He has managed all National

Shipbuilding Research Program (NSRP) activity at Ingalls for eight years and is the Ingalls NSRP Shipyard Delegate. He served as Chairman of the NSRP Ship Design and Materials Technologies Panel from 2001 through 2004, as an NSRP Major Initiative Team Leader since 2007, and as the NSRP Executive Control Board Industry Representative from 2013 to 2016. He received a Bachelor of Science in Mechanical Engineering from The Ohio State University and a Master of Engineering from the University of Florida. Mr. Walks is a Professional Engineer in Alabama and is a member of SNAME. In his spare time, John serves as an elder at his church, periodically travels to other countries for mission projects, and serves on the board of Augusta Evans School Foundation.





## ENGINEERING MANAGER OF THE YEAR

**Charles "Stuart" Tyler, P.E.**

Senior Project Manager |

Hargrove Engineers + Constructors

Stuart Tyler, PE is a Senior Project Manager and serves as the Mobile Refining Unit Lead for Hargrove Engineers + Constructors. He is responsible for overall refining project execution and leads a team of 12 project managers running a portfolio of as many as 25 refining projects at a time. With 12 years of experience

in the gas, chemical, power, and refining industries, Stuart's expertise and knowledge includes piping/equipment design and project engineering/management from front end planning thru construction. Stuart became an associate (owner, or principal) with Hargrove in 2014, and has also mentored young teammates through Hargrove's PURVIEW Program for rising leadership. While not at work, Stuart is also busy at home where he is a devout husband to his wife Abigail and father of six children!



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**John Johnson**

Naval Architect /  
Marine Engineer of the Year



**John Walks**

Mechanical Engineer of the Year



## INDUSTRY INNOVATOR : Drone Technology | Alabama Power



170 ft. tall power structure near Jackson, AL



Bolt specification on tower from drone photograph.

Alabama Power was founded in 1906 and helped move the state from an agricultural environment where 90 percent of the population had no electricity to the economy that we enjoy today. Today, Alabama's economy supports car manufacturing, one of the largest ship ports in the country, an aerospace industry, and a thriving chemical industry, all powered by electricity.

Over the years, Alabama Power has adopted many innovative technologies

to benefit customers, to streamline our work processes and to increase safety measures for our employees. Most recently, the company has adopted the use of unmanned aerial vehicles (UAV), commonly known as drones, as one of its most innovative work practices. Alabama Power uses drones for routine inspections and to aid in construction of new lines. Drones equipped with cameras assist in inspections of our facilities and help as employees work to identify and repair equipment failures. Using drones often helps the company make repairs more quickly, helping restore power faster for customers that depend on our service.

Drones are especially helpful in areas where access is limited. In Mobile, this includes swampy, marshy areas where lines are sometimes located, as well as areas where lines are located at very high elevations. Prior to the use of drones, linemen would often have to climb high poles and access difficult areas to make visual inspections of bolts or other equipment. By using drones, we are able to get information and data more quickly as well as provide a safer work environment for our teams in the field.

As Alabama Power works to provide affordable, reliable electricity to its customers, technology like drones becomes more important. Drone technology helps the company find and identify problems as quickly as possible, helping us keep the power on as well as helping restore power more quickly following storms and other power outages.



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## ENGINEERING EDUCATOR OF THE YEAR

Dr. Nicholas Sylvester, Ph.D., P.E.  
Professor | University of South Alabama

Dr. Nicholas Sylvester received his undergraduate degree in Chemical Engineering at Ohio University and his Ph.D. at Carnegie Mellon University. He has held academic and administrative positions at Notre Dame, the University of Tulsa, and the University of Akron before coming to the University of South Alabama (USA).

Dr. Sylvester is currently a Professor of Chemical and Biomolecular Engineering at USA and has been a faculty member since 1996. In that time, Dr. Sylvester has provided an outstanding engineering education to thousands of engineering students, particularly in the areas of chemical engineering processes and modeling of chemical reactors. Dr. Sylvester was faculty advisor for the first student to receive the Doctor of Science Degree at USA, who is an engineer with Mitsubishi Polysilicon in Mobile, Alabama.

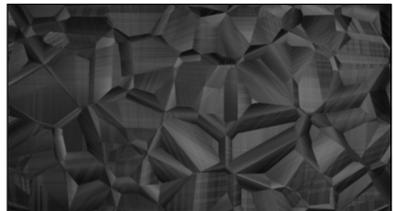
Dr. Sylvester is a member of the American Chemical Society, American Institute of Chemical Engineers, American Society for Engineering Education, National Society of Professional Engineers, and the Society of Petroleum Engineers. He is a registered Professional Engineer in Oklahoma and Ohio. He has held leadership positions in many of these organizations, as well as serving the student chapter of AIChE.

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## MACE-RABURN ENGINEERING SCHOLARSHIP RECIPIENTS

The MACE-Raburn Engineering Scholarship was established in 2003 by the USA College of Engineering, Dr. Red Raburn, and the Mobile Area Council of Engineers to provide tuition assistance for outstanding engineering students at the University of South Alabama. A \$1,500 scholarship is granted to each scholarship winner.



### Michael Draughn

Michael is a junior in the Civil Engineering program from Pace, Florida. His post graduate plans include continuing his education and earning a masters in Coastal Engineering. In his spare time he enjoys fishing and hunting.



### Bryant Baldwin

Bryant was born and raised in Mobile and is a junior majoring in Mechanical Engineering. He has aspirations of pursuing graduate studies in Biomedical Engineering. In his spare time he enjoys visiting new restaurants, playing golf, and playing instruments such as the xylophone. He loves to meet new people and partake in new adventures.



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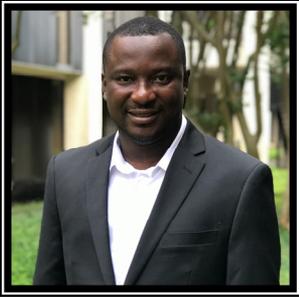
Anyone who's ever built something knows that the people involved can make or break the project. That's why more companies are calling on Hargrove to engineer, design, automate, and manage their capital improvement projects. Teammates, like Instrumentation Engineer Indiana Green, PE, come through for our customers every day on every project they touch. [hargrove-epc.com](http://hargrove-epc.com) / 877.123.4567 / [t](#) [f](#) [in](#)

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## YOUNG ENGINEER OF THE YEAR

**Abdulai Abdul-Majeed, P.E., PTOE**

Transportation Engineer | Thompson Engineering



Abdulai Abdul-Majeed is a transportation engineer at Thompson Engineering. He earned a Bachelor of Science degree in Civil Engineering from the Kwame Nkrumah University of Science and Technology (KNUST) in Kumasi, Ghana. He worked as a licensed professional engineer for almost a decade overseas, and at age 29, moved from Ghana to Alabama to study at the University of Alabama. Majeed earned a Master of Science degree in Civil Engineering from the University of Alabama in 2015 and joined Thompson Engineering upon graduation. Majeed is licensed in

Texas, Mississippi, and Louisiana, and is certified as a Professional Traffic Operation Engineer (PTOE).

Majeed was a co-principal research engineer in the development of the Alabama Department of Transportation Roundabout Design Manual used by practitioners and policymakers in implementing roundabouts in the State of Alabama. He serves as the technical lead in traffic operations at Thompson and has worked on numerous roadway projects in Alabama, Georgia, Tennessee, Mississippi, and Florida. He has developed complex interchange concepts for major projects including the Mobile River Bridge and Bayway Widening project.

Majeed is active in community service efforts. He is a founding member of the Thompson EcoTeam, an employee volunteer group committed to cleaning waterways of litter. He participates annually in the Alabama Coastal Cleanup. Majeed enjoys shrimping, listening to native music, and spending time with his wife and three children.

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## MACE Mission Statement

The mission of the Mobile Area Council of Engineers (MACE) is to coordinate and promote engineering interests of the member organizations, which can be best performed by cooperative action in relation to professional, educational, civic and social matters.

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## MACE 2019 PROJECT OF THE YEAR

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### D'Olive Creek Stream Restoration DA-3 Segment

Mobile Bay National Estuary Program, the City of Daphne, and Volkert, Inc.



*Top to bottom: Site photo before project began; During construction; and after project completion showing use of local logs and stones to reduce velocity.*

The Mobile Area Council of Engineers (MACE) is proud to recognize the D'Olive Creek Stream Restoration DA-3 Segment as the 2019 Project of the Year.

Volkert, Inc., an engineering firm based in Mobile, teamed with the Dauphin Island Sea Lab (DISL) and the Mobile Bay National Estuary Program (MBNEP) to address the Ecosystem Restoration and Protection objectives outlined in the previously prepared Comprehensive Conservation and Management Plan (CCMP). The D'Olive Creek watershed drains into the eastern shore of Mobile Bay, including parts of the city of Daphne as well as the Malbis Plantation. The watershed is in transition from forested, agricultural, and residential land uses to residential and commercial development. The changes in land use and impervious surfaces have impacted water quality and habitat in the watershed and Mobile Bay. Increased runoff has influenced erosion and stream channel degradation which has resulted in extensive sediment loads and destroyed habitat. The purpose of this Stream Restoration project was to address the stability of the creek and restore the upstream wetlands of this reach.

Volkert was tasked with providing engineering, environmental, and monitoring services for the design of a channel that would allow for stepping down the elevation through the use of on-site tree logs and local rocks in the area as well as local vegetation which would effectively slow down the velocity of the water and reduce the effects of erosion along D'Olive Creek. The 1,200 linear feet

project area, known as Section DA-3, includes several incised channels through degraded wooded wetlands upstream of a small-scale step pool project implemented by the City of Daphne a decade ago. Restoration included elevating the streambed and construction of an oxbow lake. The use of existing native species to the area assisted in the success of this project and allowed the project to be completed within budget. The design mitigated sediment deposition downstream through channel stabilization and native vegetation installation. The channel and floodplain was designed to support high shear stresses that occur in high and low flow events. This was a NFWF funded project performed under the direction of Mobile Bay National Estuary Program. This project required extensive coordination with both the Dauphin Island Sea Lab and the Mobile Bay National Estuary Program as well as the local and state regulatory agencies including monthly progress reports with schedule updates from design through the monitoring program.

## ENGINEER OF THE YEAR PAST RECIPIENTS

Emory Baya	2018	Lynn C. Doyle	1991
Ray Miller	2017	J. Earnest Farnell	1990
Tom Wade	2016	Stanley H. Houston	1989
William J. Knapp	2015	James R. Couey	1988
Tim E. Patton	2014	T. Keith King	1987
William Walter Bolton	2012	James L. Busby	1986
David M. Webber	2011	Thomas J. Terrell	1985
Dr. James E. Laier	2010	Harold V. Rodriguez	1984
John W. Steadman	2009	Charles G. Munden	1983
Henry R. Seawell, III	2008	Norman J. Walton, Sr.	1982
Francis M. Donovan, Jr.	2007	Col. Robert H. Ryan	1981
Douglas C. Otto, Jr.	2006	Marion H. Wilkins	1980
Scott L. Douglass	2005	Thomas K. Peavy	1979
Anthony L. Palmer	2004	James S. Philip	1978
Kathryn Ann Wilhelm	2003	Frank C. Deming	1977
Lanier S. Cauley	2002	A.L. Pardue	1976
Rodney W. Summerford	2001	Donald L. Smith	1975
Robert W. Barber	2000	E.L. Rivenbark	1974
Guy E. O'Connor	1999	H. Minge Reed, Jr.	1973
J. R. Ehlenberg	1998	E.A. Drago	1972
George K. Chandler	1997	Kenneth C. Roberts	1971
Richard F. Beirne	1996	Robert Earl Pride	1970
Toby E. Gurley	1995	Wayne F. Palmer, Sr.	1969
Nathaniel D. McClure IV	1994	Gen. W. K. Wilson, Jr.	1968
Bill L. Roberson	1993	Harry E. Myers, Sr.	1967

## YOUNG ENGINEER OF THE YEAR PAST RECIPIENTS

Andrew E. James	2018	Kendall L. Kilpatrick	2006
Justin McDonald	2017	Scott S. O'Briant	2005
R.J. Gonzales, III	2016	Scott A. Hardy	2004
Jason B. Krick	2015	Melinda D. Immel	2003
Kenneth W. Nichols	2014	David M. Webber	2002
Angela Yvonne Nolan	2012	J. T. Little	2001
Buddy Odom, Jr.	2011	D. Mark Poore	2000
Scott Peach	2010	Kathy R. Speight	1999
Steven D. Stewart	2009	Robert C. Roubion	1998
Angela O'Connor	2007		



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## **ENGINEERING SOCIETIES**

- American Society of Civil Engineers  
Mobile Branch - ASCE | 2nd Wednesday  
Contact: Andrew James, President | [andrew.james@volkert.com](mailto:andrew.james@volkert.com)
- American Society of Mechanical Engineers  
Gulf Coast Section - ASME | 4th Tuesday  
Contact: Brian Healy, Chair | [bhealy@orleansholdingco.com](mailto:bhealy@orleansholdingco.com)
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Contact: Chris Stripling, Vice President | [cstripling@alabamacontrols.com](mailto:cstripling@alabamacontrols.com)



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