

MACE

MOBILE AREA COUNCIL OF ENGINEERS

AWARDS BANQUET
January 30, 2020



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

Individual of Special Recognition

Educator of the Year

MACE-Raburn/USA Engineering Scholarship

Young Engineer of the Year

Engineer of the Year

Project of the Year

Closing Remarks





ASCE OUTSTANDING ENGINEER

Andrew James, P.E.

Mr. James served as an ASCE Mobile Branch officer from 2015 through 2019. As is tradition, the officers rotate from Secretary, Treasurer, Vice President, and then President in their final year. Mr. James is the 2017 Mobile Area Young Engineer of the year and was the Project Manager on the 2018 Engineering Project of the year.

Mr. James is a Project Manager at Volkert, Inc. based in their Gulf Shores, Alabama Office. As a manager he is responsible for a broad area of project design with over 14 years of design and construction experience in Alabama, Florida, Louisiana, Mississippi, and North Carolina. Mr. James volunteers his time at Prodissee Pantry, is a Deacon at his Church, the proud parent of two wonderful boys, Aidyn-12 and Nolan-9, and has been married to his stunningly gorgeous and witty wife, Gabrielle, for 13 years.



SAME OUTSTANDING ENGINEER

Angela Nocera, P.E.

Angela Nocera, P.E., F.SAME, has over 13 years of experience as a Civil and Environmental Engineer. She is a Civil Associate with Michael Baker International where she provides infrastructure design services to the City of Mobile, Mobile County, Mobile Airport Authority, and various federal agencies. Ms. Nocera also manages Michael Baker's federal program in the Southeast Region. She has dedicated herself to SAME

during her career, serving in multiple roles including Past President for the Mobile Post, Elected Director on the National Board of Direction, and Fellow in the SAME Academy of Fellows. Ms. Nocera is Director of the annual Girls Exploring Math & Science Program (GEMS), an annual workshop for middle-school girls and their parents to explore STEM careers in our community.

Register Now!

**ASCE Alabama Section
2020 Winter Meeting**

**March 10, 2020
GulfQuest Maritime Museum**

www.alabama-asce.org/2020-winter-meeting/

ASCE ALABAMA SECTION
Mobile Branch



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AEROSPACE ENGINEER OF THE YEAR

Raghu V. Narayanam, MS, PMP

Senior Engineer | Airbus Americas, Inc.

Venkata Raghavendra Narayanam (Raghu), was born in Andhra Pradesh, India, and moved to the United States in 2009 at the age of 19 to study Mechanical Engineering at the University of South Alabama.

His interest in aviation led him to choose an internship at VT Mobile Aerospace, where he worked on the passenger to freighter conversion of Boeing 757 aircrafts and gained hands-on experience. While in school, Raghu had the opportunity to be a part of the NASA ULSI rocket launch project. It was a life-changing opportunity that landed him in his dream job at Airbus. Since 2012, Raghu has taken multiple roles within the Airbus A380 Linings team and has recently become the Cabin Vendor Manager working mainly on the A320 family aircraft cabin upgrade projects.

Raghu went on to earn a Master's Degree in Mechanical Engineering and a Project Management Professional (PMP) certification. He is also currently pursuing a Data Analytics Nanodegree and a graduate certificate program in Systems Engineering. Raghu feels fortunate to be in the United States and is grateful to his family for supporting his endeavors and to the fantastic teams he has worked with for nurturing him and broadening his horizons. Outside of work, Raghu likes spending time with his family, coding, playing table tennis and likes to unwind by watching documentaries and cooking.



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CIVIL ENGINEER OF THE YEAR

David Tomley, P.E.

Senior Structural Engineer |
Thompson Engineering

David Tomley is a Senior Structural Engineer and Project Manager for Thompson Engineering. He is a registered professional engineer in 14 states, and has 29 years of experience in the transportation and industrial industries with a focus on structural engineering; bridge design and rehabilitation;

structural bridge inspection and load rating; design-build; value-engineering; bridge hydraulics and bridge scour; and accelerated bridge construction.

David is a professional member of the Precast/Prestressed Concrete Institute's (PCI) Bridge Producer Committee and Committee on Bridges and is the Chair of the Transportation Committee for the PCI Gulf South Region (Louisiana, Mississippi, and Alabama). David has provided numerous publications and presentations to organizations including the Transportation Research Board, International Bridge Conference, PCI, and AASHTO. He has provided Load and Resistance Factor Design (LRFD) bridge engineering application training to various state agencies including Departments of Transportation for Indiana, Iowa, New Mexico, New York State, as well as the Nebraska Department of Roads.

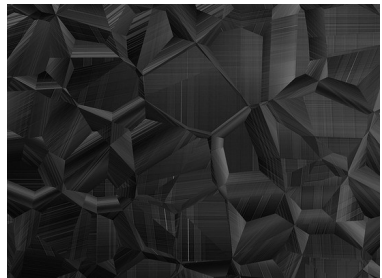
David is a certified bridge inspector for the Alabama Department of Transportation (ALDOT) and has worked on several large-scale bridge inspections and major repair and rehabilitation projects.

David and his wife, Patty, live in the Oakleigh Garden District of Mobile and have three children.



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ELECTRICAL ENGINEER OF THE YEAR

Peyton Gunn, P.E.

Electrical Engineer |

United States Army Corps of Engineers

Peyton Gunn is a registered Professional Engineer with 11 years' experience with the U.S. Army Corps of Engineers. He currently serves as Electrical Engineer and Technical Specialist for Communication Systems for the Mobile District. Peyton holds a Bachelor of Electrical Engineering from Auburn University. Project

experience includes the design of interior and exterior power and telecommunications systems, interior and exterior lighting, fire alarm and mass notification, lightning protection, electronic security, and audio/visual systems for Army, Air Force, and Civil Works facilities.

During his tenure as a design engineer, he has worked throughout the United States and in various parts of the world including Latin America, the Caribbean, and Japan. Notable projects include ERDC Headquarters in Vicksburg, Advanced Munitions Technology Complex at Eglin AFB, Air Traffic Control Tower at Maxwell AFB, and numerous AFSOC O&M projects at Yakota AB.

He is a registered professional engineer in the State of Alabama, and is a BICSI Registered Communications Distribution Designer. He lives in Mobile, Alabama with his wife Hilary. They are the proud parents of two daughters, Evie and Amelia.



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**MARINE ENGINEER/
NAVAL ARCHITECT OF THE YEAR**
Charles J. Younger, Jr.
Vice President | VT Halter Marine

Charles J. “Buck” Younger, Jr., is the Vice President of Engineering at VT Halter Marine. For the past three years, he has personally directed every engineering aspect of VTHM’s winning bid for the U.S. Coast Guard’s polar security cutter. Younger oversaw the hull form tank testing and the associated ice breaking model testing and had a direct hand in the evaluation and selection of the program’s major sub-contractors. His marine industry expertise proved invaluable during the design trade off studies, which he managed through implementation.

Before assuming this role, Younger served as VTHM’s Functional Design Manager and Program Engineer for two LNG-fueled shipping and logistics services vessels built for Crowley Maritime Corp. Last month, these ships were selected as Significant Boat of the Year by WorkBoat Magazine.

Previously, Younger served as Director of Engineering at Austal USA where he grew the engineering department from 40 to 260 engineers. He has held management positions at Fountain Powerboats, InterMarine Savannah, Trident Shipworks, and Tampa Shipyards.

Younger received both Bachelor and Master of Science degrees in naval architecture and marine engineering from the University of Michigan. He has been a member of the Society of Naval Architects and Marine Engineers since 1980.

HISTORY of MACE

A tradition since 1967, MACE was founded by practicing engineers from the local society engineering chapters. Those founders and other envisioned an organization that exchanged information specifically of interest to engineers practicing in the Mobile area. In addition, they saw the need to recognize their peers. Over time, MACE grew to include an annual award banquet.

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.



CHEMICAL ENGINEER OF THE YEAR

Sharon Westerfield, P.E.

Process Engineer |

Hargrove Engineers + Constructors

Sharon Westerfield, P.E., currently serves as a Senior Process Engineer at Hargrove, providing support on several major projects including pressure and relief system evaluation and mitigation of identified deficiencies, as well as sizing and selection of relief systems for new equipment installations for several

major refining and chemical clients.

Sharon has also provided support on a gas treatment facility abandonment project, as well as wastewater tank installation for another refining client. She has also worked to implement safety instrumented systems, or SIS, for furnace applications. Sharon has over thirty-four years of experience in chemical engineering in a variety of industries including oil refining, petrochemical, specialty chemical, and automotive.



MECHANICAL ENGINEER OF THE YEAR

Brooke Osburn, P.E.

Mechanical Engineer |

Hargrove Engineers + Constructors

Brooke Osburn, P.E., serves as a Mechanical Engineer III at Hargrove Engineers + Constructors. She is a graduate of the University of South Alabama where she met her husband Cole. There she also served as Student Chapter President of ASHRAE and went on to serve four terms as Treasurer for the Mobile Chapter of ASHRAE.

Brooke has been a Big Sister in the Big Brothers Big Sister Organization since 2012. Her little, Kylie, will graduate high school in May. Brooke enjoys giving back to her community and has spent time serving on the Hargrove Adaptive Toy (HAT) Project team, volunteering at Camp Rap-a-Hope and Camp Smile, judging the BEST Robotics Competition, and mentoring students interested in the field of Engineering. She considered it a privilege to have the opportunity this summer to engage with the Distinguished Young Women interest in Engineering during the Women's Forum held at the University of Mobile.

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ENGINEERING MANAGER OF THE YEAR

Ken Hubacker, P.E.

Senior Project Manager |

Hargrove Engineers + Constructors

Ken Hubacker, PE, serves as Hargrove's Chemical Projects Leader and Senior Project Manager/Project Director, managing Hargrove Mobile Office's largest projects from engineering through commissioning. He has experience managing specialty chemicals expansions over \$100MM TIC and leads project teams

of over 75 EPCM resources for Hargrove, including communication between the Teams, ensuring alignment with the client, reporting progress, and managing all aspects of project execution from change management to value creation. Ken has over thirty-five years of progressive experience in branch management, engineering management, project management, discipline engineering management, and design engineering as well as field supervision. Ken serves as a champion for safety and quality and is consistently a mentor for upcoming project managers and engineering leaders. He is a highly requested project manager from our clients and helps oversee not only his own projects, but all projects in the chemicals industry executed within the Hargrove Mobile office.

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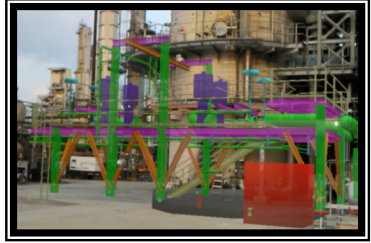
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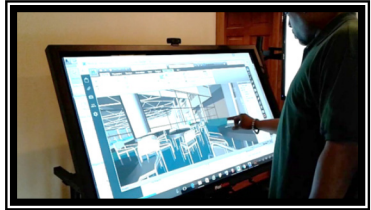
INDUSTRY INNOVATOR :

Augmented Reality and 4D Construction Progressing |
Hargrove Engineers + Constructors

Hargrove Engineers + Constructors recently began utilizing Bentley's Synchro Software's 4D construction modeling solution for state-of-the-art visualization, construction planning, and construction progressing. At the core is a 4D engine (the 4th dimension being time/schedule) that allows project teams to simulate construction sequences/durations, enhance digital construction planning, and field execution.



By utilizing cutting edge technologies, Hargrove's clients and project execution teams can interact collaboratively with 3D and 4D models. These models may be reviewed in any physical environment from an office, to a conference room, to the actual construction site. This technology offers teams the ability to review, validate, track, and progress construction. Augmented reality (AR) can project the 3D model at 1:1 scale over the existing environment so that users can visualize the steel, piping, tie-ins, equipment, tray/raceways, and existing infrastructure around them using the AR Headset.



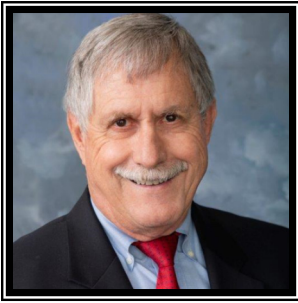
Teams can walk around the model and interact with it together in a 360-degree, real-world, multi-user experience. This more immersive visualization creates an engaging space for collaboration and better understanding of the work and project

schedule. The photo above shows the model projected into an operating unit as seen through the AR headset. Hargrove utilizes progressing software with a "4D Timeliner" to visually sequence construction. Modeled 3D components are tied to activities within the schedule so that the entire team – including contractors – can watch the project being built right before their eyes (either in the field with augmented reality or in a video showing how it will be installed over a user selected interval).

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INDIVIDUAL OF SPECIAL RECOGNITION

John Steadman, Ph.D.

Dean Emeritus | University of South Alabama

Dr. John Steadman served as the Dean of the University of South Alabama College of Engineering from 2003 until 2019. During his tenure at South, the college has grown immensely in both size and quality. Undergraduate enrollment has more than doubled and competitive external funding has increased to more than five times what it was in 2003. In addition,

Dr. Steadman has led the college through three successful ABET accreditations and was instrumental in developing two new graduate programs, the M.S. in Civil Engineering and the D.Sc. in Systems Engineering, the college's first doctoral program.

Dean Steadman has held leadership positions in the American Society for Engineering Education, National Society of Professional Engineers, Institute of Electrical and Electronics Engineers, and the National Council of Examiners for Engineering and Surveying. He has been elevated to Fellow grade in ASEE and NSPE and served as President of IEEE USA and NCEES. Throughout his career, Dr. Steadman has been an outstanding and effective teacher. His dedication to students and their success has been his passion. He continues to serve at the University of South Alabama as Dean Emeritus and a professor in the Department of Electrical and Computer Engineering.



ENGINEERING EDUCATOR OF THE YEAR

Brooks D. Rabideau, Ph.D.

Asst. Professor | University of South Alabama

Brooks Rabideau joined the faculty of the Department of Chemical and Biomolecular Engineering at the University of South Alabama in 2016. He earned a B.S. in Chemical Engineering from Northwestern University and a Ph.D. in Chemical Engineering from the University of Texas at Austin. He is the 2019 recipient of the Teacher of the Year Award given by the College

of Engineering at the University of South Alabama, a distinction bestowed upon one outstanding educator within the college each year, selected by a committee of winners from previous years.

His teaching emphasis lies in fluid mechanics and heat transfer at both the undergraduate and graduate levels. He maintains a strong practical emphasis while developing a substantial modeling component to his courses. Brooks is actively involved in research and, in his three and half years with the university, has mentored many undergraduate students in research projects. This has had a major impact on both quantity and quality of students electing to continue with graduate schools in chemical engineering. Brooks has had a tremendous impact on the education of students at South and is an outstanding recipient of the MACE Educator of the Year award.



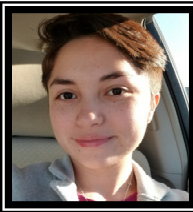
MACE-RABURN ENGINEERING SCHOLARSHIP RECIPIENTS

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.



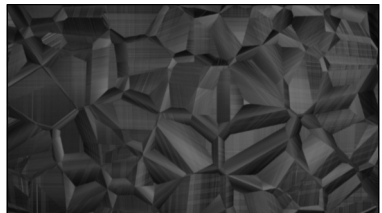
Kevin Culpepper

Kevin is a 21-year-old junior from Jackson, Alabama, majoring in Chemical Engineering at the University of South Alabama. Kevin decided early in high school chemistry that it would be the path he wanted to take for his future. Kevin's goal is to "graduate with my degree and go on to make medicine that changes the world or oversee chemical production. I personally want to thank MACE for awarding me this scholarship that has helped to put me closer to achieving this goal."



Miranda Summers

Miranda is a sophomore from Mobile, studying Electrical Engineering at the University of South Alabama. She is in the Army National Guard and is currently attending basic combat training and advanced individual training.



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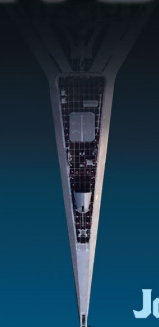
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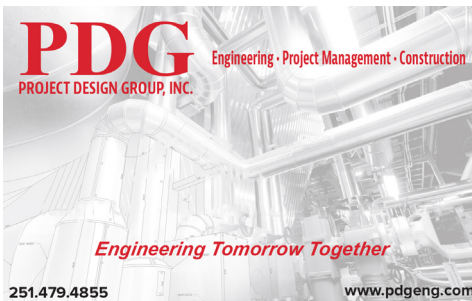
YOUNG ENGINEER OF THE YEAR
Alex Smith, P.E.
Program Engineer | Austal USA

Alex Smith is a Deputy Program Engineer at Austal USA. He earned a Bachelor of Science degree in Mechanical Engineering from Old Dominion University in Norfolk, VA. Alex started his engineering career as an Electro-Mechanical Engineer at Newport News Shipbuilding on the design, construction, and testing of the propulsion plant on CVN 78, what is now the aircraft carrier, USS

Gerald R. Ford. While at Newport News, Alex completed a Master of Science degree in Engineering Management from The George Washington University in Washington, DC in 2010. Alex moved to Mobile, AL and joined Austal USA in 2015. Alex is licensed in Virginia and Alabama.

Alex is responsible for engineering production support for up to five ships, concurrently. He leads Austal's full power and maneuvering demonstrations on sea trials; coordinating the event, managing communication with the ships' crew, the Navy, and presenting test results to INSURV (the Board of Inspection and Survey). Alex has worked diligently to support adjacent business units within Austal's Waterfront and Manufacturing Operations to ensure successful delivery of numerous ships. Alex has been a leader in driving production hours out of the build through optimizing design and working with Production to improve process and sequences. Alex's substantial experience in troubleshooting technical issues and communicating resolutions to both internal and external customers makes him an invaluable partner with Production in ensuring quality and on-time delivery of Austal's ships.

Alex is an active member of his church, where he and his wife lead a Financial Peace University group, helping others to learn the principles of personal finance. He also served as an Assistant Scoutmaster for the Boy Scouts in a youth leadership development program prior to relocating to Alabama. Alex enjoys working on projects around the house, fishing, and spending time with his wife, Kimberly, and his daughters Margaret and Charlotte.



ENGINEER OF THE YEAR

Roy Duncan, P.E.

Vice President Divisional Operations | Hargrove Engineers + Constructors



Roy R. Duncan, III, PE serves as the Vice President, Divisional Operations for Hargrove Engineers + Constructors. During his time at Hargrove, he has held various leadership positions, including managing over 300 project execution Teammates across all disciplines of engineering and office administration, developing engineering budget estimates, coordinating across disciplines and across offices, and maintaining project excellence on both small and major capital projects for clients in the power, chemical, pulp and paper, refining, and infrastructure industries.

Roy's roles at Hargrove have included Mobile Operations Leader, Mobile Engineering Leader, Communities of Practice Leader/Virtual Team Leader, Civil/Structural Department Leader, and Project Manager. Roy holds a Master of Science in Civil Engineering from Auburn University and is a certificated professional engineer in a number of states. He served as Chairman of the Construction Industry Institute's Research Team RT326 on Virtual Teaming and currently serves on the Hargrove Board of Directors. He lives in Mobile, Alabama, with his wife Cherri and has two grown children, Chris and Melody Duncan, and a grandson. Roy is an avid musician and is passionate about downtown Mobile revitalization.



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MACE 2020 ENGINEERING PROJECT OF THE YEAR McGregor/Museum Drive Roundabout Volkert, Inc.

The Mobile Area Council of Engineers (MACE) is proud to recognize the McGregor/Museum Drive Roundabout as the 2020 Project of the Year.

As part of the 2012 Pay As You Go program the City of Mobile contracted Volkert, Inc., a Mobile based engineering consulting firm, to provide design services for the McGregor Avenue/Museum Drive Roundabout in the Springhill area of Mobile. Prior to the roundabout's completion this area had multiple conflict points resulting in a high rate of crashes and no safe passage for pedestrians. The McGregor/Museum Drive intersection is nearby an active fire station, shopping center, recreational ballpark, and local swim club which all generate additional traffic concerns. The support of the Village of Spring Hill was key to the success of this project allowing them to realize their goals of improved pedestrian, aesthetic, and commercial amenities in the area. The Village of Spring Hill worked alongside Volkert, Mobile County, and the City to obtain feedback and buy-in from the community before the first design was developed and continue to support the project through additional landscaping and amenities today. In October of 2019, the area was able to install a new 13-foot tall sculpture "Centrifugal II", created by local artist Casey Downing, which is on permanent loan from the nearby Museum of Art adding an artistic element to an already beautiful location.

This project has created a safer passage for those navigating the intersection by providing safe passage of vehicles through this intersection with minimal delays throughout peak travel times. The McGregor/Museum intersection was in dire need of reconfiguration and the addition of a roundabout took a dysfunctional and unsafe intersection and made it a statement piece as you enter a very populated area of Mobile. The project consisted of roadway design, drainage upgrades, utility relocation/coordination, geotechnical investigations, electrical, and survey services. The Museum/McGregor roundabout cost approximately \$1.4 million to build and is seen as a way to alleviate a morning and afternoon rush hour bottleneck. The Museum/McGregor project is the city's first roundabout project and turned an area once called malfunction junction into a showpiece of landscaping, effective lighting, and pedestrian accessibility.



Left to Right: Intersection before, Intersection after, aerial view of roundabout after construction.



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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

Alex Smith	2019	Angela O'Connor	2007
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



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American Society of Mechanical Engineers

Gulf Coast Section - ASME | 4th Tuesday

Contact: Brian Healy, Chair | bhealy@orleansholdingco.com

Alabama Society of Professional Engineers

Mobile Chapter - ASPE | 1st Wednesday

Contact: Ray Miller, President | ray.miller@volkert.com

Institute of Electrical and Electronic Engineers

Mobile Section - IEEE | 3rd Tuesday

Contact: Dr. Mohammad Alam, Chairman | malam@southalabama.edu

International Society of Automation

Mobile Section - ISA | 2nd Tuesday

Contact: Bill Agerton, President | bagerton@hargrove-epc.com

Society of American Military Engineers

Mobile Post - SAME | 3rd Wednesday

Contact: Jeff Duplantis, President | jeffrey.l.duplantis@mwhglobal.com

University of South Alabama

Engineering Student Council | Monthly

Contact: Tom Thomas, Ph.D., P.E. | tthomas@southalabama.edu

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