



MACE

MOBILE AREA
COUNCIL OF ENGINEERS



Annual Awards Banquet
Thursday, February 25, 2016

GULF COAST
EXPLOREUM
SCIENCE CENTER



COCKTAIL RECEPTION

6:00 PM

DINNER / INVOCATION

6:45 PM

AWARDS

7:15 PM

Welcome:	Thad Hendrix, P.E., Project Design Group, Inc.
MACE Committee:	Thad Hendrix, P.E., Project Design Group, Inc.
MACE Sponsor Recognition:	Claudia Bjork, Gulf States Engineering, Inc.
MACE Member Societies:	Ray Miller, P.E., Project Design Group, Inc.
2016 Awards Presentation:	Ray Miller, P.E., Project Design Group, Inc.
MACE-Raburn / USA Engineering Scholarship:	

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

Closing Remarks

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2016 MACE Project of the Year



National Maritime Museum of the Gulf of Mexico GulfQuest

The Mobile Area Council of Engineers (MACE) is proud to recognize **GulfQuest** as the **2016 Project of the Year**.

The City of Mobile partnered with the National Maritime Museum of the Gulf of Mexico to construct a 90,000 sq. foot interactive maritime museum. Opened in September 2015, GulfQuest is the first museum dedicated to the Gulf Coast's rich maritime traditions – and only the third interactive maritime museum in the world. It will become the centerpiece of Mobile Landing, which was also designed by Thompson Engineering.

Thompson's sister company, Watermark Design Group, provided the architectural design for the new museum. Thompson Engineering is serving as the Engineer of Record on this project providing full-service AE design for this challenging, multidiscipline project.

The design of the structure features a large globe protruding through the roof, representing the Gulf's connection to the world and a bridge that adds to the nautical look that will serve as home to the high-tech interactive exhibits. The interior includes a Grand Lobby, a large rotunda that provides ground-floor access to amenities including ticketing, a full-service café and a museum store. Other features include observation decks, an orientation theater, traveling exhibits galleries, meeting rooms, and an events space on the rooftop. The museum will also contain a ferry, bus terminal, and flood-proofed basement. The main floor is elevated to 16-feet.

The construction documents were divided into 18 packages in an effort to employ as many local companies as possible. Multiple funding sources including federal grant money was used. The design team of Watermark Design Group, LLC, (Architect), and sister company Thompson Engineering, Inc. (Engineer) partnered together for a seamless flow of design engineering services, and provides an example of their ability to provide in-house, full service AE design capabilities for challenging multidiscipline projects.



Engineer of the Year

John T. (Tom) Wade, P.E., FPE
Gulf States Engineering, Inc.
Vice President



Tom Wade, P.E., FPE

John T. Wade P.E., FPE (Tom) is the **Vice President** for **Gulf States Engineering, Inc.** He obtained his Bachelor of Science in Mechanical Engineering from Mississippi State University and his Master's Degree in Fire Protection Engineering from the University of Maryland. Tom is a licensed engineer in 24 states including Alabama, Mississippi, Arizona, Indiana, Virginia and Florida. He has passed the PE exams in both Mechanical and Fire Protection Engineering disciplines. Tom is also a Certified Energy Manager, a LEED accredited design professional, and is a USCG certifying entity for marine loading vapor control systems.

As a mechanical and fire protection engineer for GSE, Tom has provided designs for commercial, general manufacturing, heavy industrial, and government clients. Tom has over 20 years of professional experience in the design and engineering of mechanical and fire protection systems. This includes process equipment design and specification, HVAC and plumbing, heat transfer and thermal analysis, pump and piping design, fire suppression system and fire alarm system design, pneumatic conveying and dust collection system design, and project management for such clients as SSAB, Airbus Final Assembly Line, ThyssenKrupp Stainless and Carbon Steel, Severcorr, Nasa, and Oceaneering. Through his years, his designs have been recognized both nationally and locally. Most recently, Tom travelled to Chicago to be recognized by Siemens for the fire protection design of the Airbus Final Assembly Line. Siemens highlights one project each year for its engineering innovation. Other awards are the John Wesley Powell Prize which highlighted Tuskegee Airmen National Historic Site and Associated Builders and Contractors which highlighted Airbus Military. Lastly, in 2007 Tom was chosen by Mississippi Gulf Coast Chamber of Commerce as one of the Top Ten Business Leaders under 40.

In his spare time Tom juggles a multitude of activities. First and foremost, Tom enjoys spending time with his three children, Tarryn, Dylan, and Ethan. He volunteers with his community as a fire fighter with the Central Jackson County Fire Department. Tom is a member of the board of directors for the local chamber of commerce. Additionally, Tom serves his professional community by volunteering as a principal member of the NFPA Technical Committee for fire fighter qualifications. This technical committee is charged with authoring several NFPA Standards (NFPA 1001, 1002, 1003, and 1005). Tom is the Chairman for Local Emergency Planning Committee, Member of Society of Fire Protection Engineers, and is a member of NFPA. Lastly, Tom enjoys painting. His art has been used in fundraising efforts for Walter Anderson Museum, Mississippi Gulf Coast Chamber of Commerce, and Court Appointed Special Advocate in Mobile.



Young Engineer of the Year

R.J. Gonzales, III, P.E.
Southern Earth Sciences, Inc.
CMT Department Manager



R.J. Gonzales, III, P.E.

R.J. Gonzales, III, P.E. is a Registered Professional Geotechnical Engineer with Southern Earth Sciences, Inc. (SESI) where he serves as the Construction Materials Testing Department Manager for the Mobile branch. R.J. began with SESI in 2002 while pursuing his degree at the University of South Alabama where he was involved in numerous organizations such as the Student Government Association and Pi Kappa Phi Fraternity. He holds license registrations in Alabama (#31950), Mississippi (#20449), and Louisiana (#39330).

R.J.'s expertise lies in roadway and paving design, construction materials testing, shallow foundation design, deep foundation design, settlement monitoring instrumentation and vibration monitoring. He served as SESI's Project Engineer on the ThyssenKrupp project for more than six years overseeing work on multiple subcontracts for initial site rough grading, construction materials testing and pile monitoring. At the height of the project, R.J. oversaw 16 technicians who performed work from a mobile on-site laboratory.

He is a member of the American Society of Civil Engineers (ASCE). R.J. is also a member of the Association of General Contractors (AGC) Mobile Chapter where he is serving as the 2016 Bonanza Day Chair; and is Vice President of AGC's Young Constructors Forum. He is a 2013 graduate of Leadership Mobile. R.J.'s community involvement includes membership in a mystic Mardi Gras society, coaching at Westside Ball Park, as well as coaching and a PTO volunteer for Corpus Christi Catholic School. R.J. and wife, Amanda, have two children – Reese age 10, and Jay age 8.



Geotechnical, Environmental & Construction Materials Testing

Civil Engineer of the Year



Christopher L. Carroll, P.E.

Christopher L. Carroll, P.E. is the MACE Civil Engineer of the Year. Chris is a Civil/Structural Resource Leader with Hargrove Engineers + Constructors. Chris serves as Civil/Structural Engineering Leader for Hargrove Engineers + Constructors, overseeing 35 civil/structural engineers, designers, and surveyors in the Mobile office. He has also served as Project Manager, lead Civil/Structural Engineer on major capital projects over \$100MM, and Chemical Industry Leader for Hargrove.

Chris recently completed the front end through start-up of a \$65MM TIC chemical resins multifunction line expansion that included a 3-story process structure. He is a licensed Professional Engineer in Alabama, Florida, and Mississippi. Chris holds a Bachelor of Science in Civil Engineering from Purdue University and a Masters in Business Administration from the University of South Alabama, Mobile, AL.

Chris is an active member of Saint Mary Church where he has served on the Parish Council, the School Board, and the Church Building Committee. He is active in the Knights of Columbus, and coaches soccer and the girls' volleyball team with his wife Mary. They live in Mobile and have three kids, Mason, Nicholas, and Aiden.

Aerospace Engineer of the Year



Allan Lang

Allan Lang is an Engineering Equipment Specialist in the Oxygen Systems Design Office for Airbus Americas Engineering in Mobile. He is the Lead Focal for Oxygen Hazards and Fire Risk and works to ensure readiness of oxygen equipment by helping Airbus suppliers improve their equipment designs. He has recently been focused on increasing the safety of Airbus A320neo and A330neo aircraft by playing an active role in segregating the crew oxygen systems to provide redundant oxygen supply for the pilot and co-pilot.

Lang has worked in the aircraft industry for 25 years. His background includes working for the Naval Aviation Depot in Pensacola as a Failure Analyst and Crash Investigator, and as a Lead Project Engineer working to missionize military aircraft for Aircraft Integration Corporation in Crestview, FL. Lang is also an active member of AIAA and ASTM.

Lang is a native of Baldwin County, but currently resides in Pensacola. He is supported at home by wife, Zebbie, and two children, Griffin, age 4 and Madison, age 7.

Engineering Manager of the Year

Nick Amberger, P.E. is the City Engineer for the City of Mobile and also serves as a Planning Commission Member appointed by the Mayor. He obtained his Bachelor of Science in Civil Engineering from the University of Alabama in 1992 and holds his Professional Engineer License in the State of Alabama. Nick joined the City of Mobile's Engineering department in 2009. Prior to becoming City Engineer, Nick spent over 15 years at the Alabama Department of Transportation (ALDOT) in various roles including Maintenance Engineer, County Transportation Engineer, Bridge Operation Engineer and Project Engineer. Early in his career he was a Staff Engineer at Brown & Mitchell Engineering and also Volkert & Associates.



Nick Amberger, P.E.

Nick has responsibility for the City's engineering staff that manages multiple engineering activities for the City. These activities include street paving, storm water infrastructure, right-of-way permitting, and flood plain management. He is also involved in the long range planning for the city's aging infrastructure and played a major role in helping initiate the city's first multi-year Capital Improvement Plan implemented in 2016. Nick is a Mobile native and enjoys boating, hunting, and fishing. He is married to Melanie Amberger and they have 2 sons, Cole and Connor.

Mechanical Engineer of the Year



Joseph Harris Oswalt, P.E., LEED AP

Joseph Harris Oswalt, P.E., LEED AP, is the 2016 Mechanical Engineer of the Year.

Harris serves as a Mechanical/Refining Project Engineer for Hargrove Engineers + Constructors, leading the mechanical effort on projects up to \$60MM in Chevron's Pascagoula, Mississippi refinery. These projects support Chevron in their continual maintenance and improvements to ensure petroleum products meet market quality requirements in a safe and environmentally conscious way. As Refining Mechanical Engineer, he provides project leadership in developing estimates, the design of systems, specifying equipment, and coordination with installation contractors.

Prior to joining Hargrove, Harris served on the MEP Procurement Team and as a Project Manager for a General Contractor that generated over \$1.5B in revenue per year. He is a Professional Engineer in six states and a Leadership in Energy & Environmental Design (LEED) Accredited Professional.

Harris is a Young Adult Program Leader at Government Street Presbyterian Church, volunteers with the YMCA Big Brother Big Sisters program, and is an officer in the Vanderbilt University Mobile Alumni Chapter. He lives in Mobile with his wife Hunter and daughter Eleanor.

Engineering Educator of the Year



Dr. Mohammad S. Alam

Dr. Mohammad S. Alam is a Professor and Chair of the ECE Department at the University of South Alabama (USA).

His research interests include image processing, pattern recognition, smart sensors and renewable energy. He authored or co-authored 500+ publications (185 journal papers, 300+ conference papers, 25+ research project reports, 15 book chapters, a book on IPTV) and edited many conference proceedings (4200+ citations in Google Scholar).

He has received numerous excellences in research/teaching/service awards including the 1998 Outstanding Engineer Award from Region 4 of IEEE, and 2013 Outstanding Engineer Award from Region 3 of IEEE. Recently, he was recognized as one of the 50 faculty who made outstanding and lasting research and scholarship contributions in the 50-year history of USA. Dr. Alam served/serves as the PI or Co-PI of many research projects totaling over \$14M funded by NSF, FAA, DoE, ARO, AFOSR, AFRL, SMDC, NASA, BP and ITT industry.

He has presented 100+ keynote/invited papers, seminars and tutorials at international conferences and research institutions in USA and abroad. He has organized and chaired many international conferences and serves as a Guest Editor for 4 professional journals. He supervised the research work of 55+ Masters/Ph.D. students and 22 post-docs and visiting scholars. He serves as an ABET evaluator.

Dr. Alam is elected Fellow of seven professional societies (IET, OSA, SPIE, IoP, IS&T, BCS & IEB). Currently, he serves as the President of the Mobile Section of IEEE.

2015 MACE-Raburn Engineering Scholarships



Nicholas Fikes

Mr. Nicholas Fikes is currently a junior pursuing an Electrical Engineering degree at the University of South Alabama.

He is a member of Eta Kappa Nu, which is an international electrical and computer engineering honor society of the IEEE.

He looks forward to becoming an engineer and contributing to technological advances in the future.

Mr. Fikes graduated Mary G. Montgomery High School with an advanced diploma with honors. He is also a member of the Tactical Air Control Party in the Air National Guard. His primary job is to manage ground to air communications with any aircraft that provides close air support.



Katherine Frangos

Miss Katherine Elizabeth Frangos is a second bachelor's student pursuing a Chemical Engineering degree at the University of South Alabama.

She graduated from the Auburn University Honors College with a Bachelor's of Arts in Psychology.

She chose South Alabama for its tradition of excellence in engineering disciplines and esteem in the Gulf Coast region. Miss Frangos serves as the Professional & Community Outreach Chair for South Alabama's Society of Women Engineers Chapter and will be interning this summer for Shell Oil Company in Puget Sound, Washington.

She hopes to use the knowledge acquired through her continuing education to develop and promote technologies for safe, sustainable, and reliable energy for future generations at home and abroad.

Miss Frangos is sincerely grateful for the generosity of MACE for the support in achieving her goals.

Engineer of the Year Past Recipients

William J. Knapp	2015		
Tim E. Patton	2014		
William Walter Bolton	2012	T. Keith King	1987
David M. Webber	2011	James L. Busby	1986
Dr. James E. Laier	2010	Thomas J. Terrell	1985
John W. Steadman	2009	Harold V. Rodriguez	1984
Henry R. Seawell, III	2008	Charles G. Munden	1983
Francis M. Donovan, Jr.	2007	Norman J. Walton, Sr.	1982
Douglas C. Otto, Jr.	2006	Col. Robert H. Ryan	1981
Scott L. Douglass	2005	Marion H. Wilkins	1980
Anthony L. Palmer	2004	Thomas K. Peavy	1979
Kathryn Ann Wilhelm	2003	James S. Phillips	1978
Lanier S. Cauley	2002	Frank C. Deming	1977
Rodney W. Summerford	2001	A. L. Pardue	1976
Robert W. Barber	2000	Donald L. Smith	1975
Guy E. O'Connor	1999	E. L. Rivenbark	1974
J. R. Ehlenberg	1998	H. Minge Reed, Jr.	1973
George K. Chandler	1997	E. A. Drago	1972
Richard F. Beirne	1996	Kenneth C. Roberts	1971
Toby E. Gurley	1995	Robert Earl Pride	1970
Nathaniel D. McClure IV	1994	Wayne F. Palmer, Sr.	1969
Bill L. Roberson	1993	Gen. W. K. Wilson, Jr.	1968
Richard E. Britton	1992	Harry E. Myers, Sr.	1967
Lynn C. Doyle	1991		
J. Earnest Farnell	1990		
Stanley H. Houston	1989		
James R. Couey	1988		

Young Engineer of the Year Past Recipients

Jason B. Krick	2015		
Kenneth W. Nichols	2014		
Angela Yvonne Nolan	2012	J. T. Little	2001
Bobby 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	Thomas Keith Tinnell	1997
Kendall L. Kilpatrick	2006	Juan P. Ortiz	1996
Scott S. O'Briant	2005	Cheryl P. Ulrich	1995
Scott A. Hardy	2004	Scott L. Douglass	1994
Melinda D. Immel	2003	Karen P. McDonald	1993
David M. Webber	2002		

2016 MACE Committee

Chairperson	Thad Hendrix, P.E., Project Design Group, Inc.
Awards Selection Chairman	Ray Miller, P.E., Project Design Group, Inc.
Treasurer	Mark Norris, P.E., Hargrove Engineers + Constructors
PR/Digital Media/Programs	Ashley Babb, Project Design Group, Inc.
Event Planner	Penny Hatcher, Southern Earth Sciences, Inc.
Event Support	Amy Driskell, Hargrove Engineers + Constructors
Event Support	Kayla Bray, Project Design Group, Inc.
Sponsorships	Claudia Bjork, Gulf States Engineering, Inc.
Industry	Barbara Turrens, Austal USA
IEEE	Mohammad Alam, University of South Alabama
ISA	Bill Agerton, Hargrove Engineers + Constructors
ASHRAE	Cole Osburn, Hargrove Engineers + Constructors
Private Practice	Sharon Kimbrough, P.E.

2015 - 2016 MACE Awards Committee

Chairman/ASME/ASHRAE	Ray Miller, Project Design Group, Inc.
Government	Matthew Jones, ALDOT
Private Practice	Bob Coke, Airbus Americas, Inc.
SAME/Private Practice	Mike Thompson, Thompson Engineering, Inc.
ASPE/Industry	Barbara Turrens, Austal USA
IEEE	Tom Thomas, University of South Alabama

Mission Statement

Mobile Area Council of Engineers

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

Mobile Area Council of Engineers

Member Societies

American Society of Civil Engineers Mobile Branch - ASCE Aimee Williams, President	2nd Wednesday 251.441.7533 awilliams@asdd.com
American Society of Mechanical Engineers Gulf Coast Section – ASME Brian Healy, Chair	4th Tuesday 504.617.0525 bhealy@orleansholdingco.com
Alabama Society of Professional Engineers Mobile Chapter - ASPE Ray Miller, President	1st Wednesday 251.479.4855 ray.miller@pdgeng.com
Institute of Electrical and Electronic Engineers Mobile Section – IEEE Dr. Mohammad Alam, Chairman	3rd Tuesday 251.460.6117 malam@southalabama.edu
International Society of Automation Mobile Section - ISA Bill Agerton, President	2nd Tuesday 251.476.0605 bagerton@hargrove-epc.com
Society of American Military Engineers Mobile Post - SAME Jeffrey L. Duplantis, P.E., President	3rd Wednesday 225.921.3067 jeffrey.l.duplantis@mwglobal.com
University of South Alabama Engineering Student Council Dr. James Laier, Ph.D., P.E, Associate Dean, College of Engineering	Monthly 251.460.6101 jlaier@usouthal.edu

Member Society Awards

ASPE	Barbara Turrens
ASHRAE	Jim Bray
SAME	Jeffrey L. Duplantis, P.E.

2016 MATHCOUNTS

1st Place Team

Phillips Preparatory School
Parker Inman
Griffin Noble
Russell March
Joseph Hulcher

2nd Place Team

Clark-Shaw Magnet School
Tommy White
Kaleb O'Bryant
Akanksha Rawat
Jacob deLange

3rd Place Team

Christ the King
Edward Cowles
Jake Kokosha
Noah Calvery
Andrew Fouty

1st Place Individual

Griffin Noble - Phillips Preparatory School

2nd Place Individual

Russell March - Phillips Preparatory School

3rd Place Individual

Seth Huddelston - Phillips Preparatory School

Unofficial Countdown Round Winner

Joseph Hulcher - Phillips Preparatory School

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