



ENGINEERS WEEK 2015

MACE

MOBILE AREA

COUNCIL OF ENGINEERS



Annual Awards Banquet
Thursday, February, 26, 2015



ORDER OF EVENTS

COCKTAIL RECEPTION

6:00 PM

DINNER / INVOCATION

6:45 PM

AWARDS

7:30 PM

Welcome: Ray Miller, P.E., Project Design Group, Inc.

MACE Sponsor Recognition: Ray Miller, P.E., Project Design Group, Inc.

MACE Member Societies: Ray Miller, P.E., Project Design Group, Inc.

MACE Committee: Ray Miller, P.E., Project Design Group, Inc.

Speakers: Mobile Mayor, Sandy Stimpson
Michelle Hurdle, Director of Economic & Community Development, Airbus
Frank Weise, Sr. Manager CoC IFF, Project Leader, Airbus

2015 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

MATHCOUNTS Alabama Society of Professional Engineers

2015 MATHCOUNTS Results: The School team finishing in first place was Phillips Preparatory School. Payton Emmertson from Clark-Shaw Magnet School was the top individual student. Congratulations to all participants!

Closing Remarks

2015 MACE Project of the Year

Airbus A320 Aircraft Assembly Line (Airbus America's Inc.)



Airbus Project Site February 2015

The Mobile Area Council of Engineers is proud to recognize the Airbus Final Assembly Line, U.S.A. as the Project of the Year. Airbus chose to assemble its A320 Aircraft at the Brookley Aeroplex in Mobile in 2012 (after considering 70 sites in 32 states). It made them the first new manufacturer of commercial aircraft in the U.S. in 40 years. The project not only gives direct economic stimulus to the Mobile area, but at least nine engineering design firms are impacted with different phases of the project. The project will also give the region a direct economic stimulation through the creation of jobs, but will likely succeed in attracting a large influx of suppliers and engineers to Mobile, further generating the ripple effect of economic stimulation.

The Airbus project is on track to receive LEED (Leadership in Energy & Environmental Design) certification for each of the ten buildings on the campus, with a designation of Silver or better. It is one of few industrial projects in Alabama to target the LEED certification.

The expected start of production is scheduled for Summer 2015, with the first delivery in late Spring 2016.

The plant itself will accommodate a monthly assembly and delivery capacity of 4 airplanes with the option to increase capacity to 8 airplanes per month.

Hoar Program Management, in association with Hatchmott MacDonald, is the Program Manager on the \$600M dollar project, overseeing the entire preconstruction, procurement, design, construction, and turnover of the project.

Airbus Project Concept



2015 MACE Engineer of the Year

William J. Knapp, P.E.
U.S. Army Corp of Engineers



William J. Knapp, P.E.

William J. Knapp P.E. works for the U.S. Army Corps of Engineers (USACE) Mobile District as a Supervisory Mechanical Engineer. He graduated from Auburn University with a B.S. in Mechanical Engineering. Prior to the U.S. Army Corps of Engineers Knapp worked for Pensacola Naval Air Station and Ingalls Ship Building. He is licensed as a Professional Engineer in Alabama.

Knapp serves as the Mobile District Supervisor of the Electrical, Mechanical, and Site Development section providing oversight of design and construction services. His job duties also include establishing, implementing, and monitoring policy and procedures for mechanical systems design. That includes HVAC systems, plumbing systems, fire suppression systems and fueling systems on significant projects in the Mobile Area, southeastern United States, Latin and South America, and the Iraq /Afghanistan War areas for our Military, Civil Works, and support for other customers regionally and internationally.

In addition to his Supervisory duties, Knapp carries a full workload designing mechanical, plumbing, fire protection, and mechanical specialties aspects for In-House Military projects and in the private sector.

He has had some significant recent projects with the U.S. Army Corps of Engineers. He served as Project Manager and Mechanical Technical Lead Designer on the Steam to Natural Gas conversion at Pensacola NAS. That project costs \$2.4M. He lead the Prime Power Project in Honduras giving the Air Base there commercial power at a project cost of \$15.6M. He also lead a renovation project at the Enterprise Operation Center at MacDill AFB, FL. A facility was renovated into a Sensitive Compartmented Information Facility at a cost of \$4.7M.

Knapp has been an active member of ASHRAE, SAME and Chairperson of USACE – SAD Technical Lead for Energy Regional Center of Expertise. He was won numerous awards including a Performance Award by Mobile District USACE for Excellence in Design and Management in 2010, 2011, 2012 and 2014. In 2012, he won the Special Act Award by the Mobile District USACE for Excellence in Execution of End of Fiscal Year Activities.

William also volunteers in the Mobile and Baldwin County communities. He has delivered speaking presentations for the Mobile Area Education Foundation (MAEF) Engaging Youth in Engineering and served as a Mentor to the program. Outside of work he is involved in the Port City Pacers for the Azalea Trail Run, YMCA, Spanish Fort Elementary School, and Eagle's FOY Societies at Auburn University.

Knapp and his wife Kelly have 2 grown children and live in Daphne.

2015 MACE Young Engineer of the Year

Jason B. Krick, P.E.
U.S. Army Corp of Engineers

Jason B. Krick, P.E. is Chief, Geotech, Environmental for the HTRW branch of the U.S. Army Corps of Engineers (USACE) Mobile District. He holds a B.S. in Civil Engineering from the University of South Alabama. Prior to the U.S. Army Corp of Engineers he was employed with Texas Industries Sand and Gravel Mining as a Field Engineer Technician. He has been with the U.S. Army Corp of Engineers for almost 15 years and is a licensed Professional Engineer in Alabama.



Jason B. Krick, P.E.

Krick is widely known for his technical capabilities throughout USACE. He has been involved in a variety of projects locally, nationally and internationally. As the Chief, Geotechnical, Environmental & HTRW branch, Jason is responsible for all work by the Branch's 45 employees. He is the Youngest Supervisor of the Engineering Division. His overall responsibilities include foundation design, materials, geotechnical engineering, environmental and sanitary engineering, hydrogeology, chemical engineering, environmental specialties, and levee/dam safety programs.

In 2004, he deployed to central Florida to provide hurricane disaster assistance. He provided temporary housing to storm victims through FEMA. In 2005, Jason worked in Mobile County to support the post-Katrina debris mission. In 2008, he was selected to participate in various national dam safety missions. He also was the lead geotech engineer for both the Mobile Harbor Channel Extension and Turning Basin, which lead to significant economic benefits to the Alabama State Port Authority, the City of Mobile and various private industries.

Jason has made significant contributions to the Mobile District's Dam Safety Program by monitoring and repairing 27 dams and navigation locks and other critical infrastructure associated with flood control, hydropower, and navigation programs.

He held the position of lead engineer for a \$1.2 billion dollar Mississippi Coastal Improvement Program. Jason played an important role in moving a critical element of a MS barrier island project forward to a detailed design stage. His knowledge of coastal processes and geotechnical engineering helped solve one of the most important missing pieces of the over \$400 million dollar restoration project.

Krick has been a member of SAME, ASCE, Toastmasters, Western Dredging Assoc., and ASDSO.

His accomplishments include being awarded a Dept. of Army Certificate of Appreciation for outstanding management of a geotech team (2014), Commander's Award for Civilian Service for USACE Regional Leadership Development (2010), Emerging Leadership Development Mobile District for Mobile District Leadership Development (2009) and the Commander's Award for Civilian Service for the MacDill AFB, FL Pile Foundation Contract Support (2007).

Jason, his wife Laci and their 4 young children live in Mobile.

2015 Mobile Area Civil Engineer of the Year



Wade Burcham, P.E.

Wade Burcham is the Civil Engineer of the Year. He is a Civil Engineer with Thompson Engineering. Wade is a graduate of the University of Alabama in Birmingham and has more than 17 years experience in civil engineering as an engineering designer, municipal permit engineer, and developer. He is a licensed Professional Engineer in Alabama, Tennessee, Georgia, Mississippi, Texas, Kentucky, Florida, and Louisiana. His passions are civil engineering, mentoring and mission work. Wade has been recognized at Thompson

Engineering for several awards including a Leadership Award in 2008, The Model Project Award in 2010, and a Community Service Award in 2013. In 2014, he served as an intern advisor to a Mobile native now studying engineering at Yale. He is also a mentor through professional organizations such as USGBC, SAME and ASCE.

Wade is a member of Engineering Ministries International (EMI). In 2013, he traveled to Tanzania where he was a Project Civil Engineer on the design of school and staff housing that required water sampling, grading, drainage, utilities and rainwater harvesting.

Wade and his wife Kelly live in Baldwin County with four children ages 10 months to 9 years old.

2015 Mobile Area Electrical Engineer of the Year



J. Jake Parker, P.E.

J. Jake Parker, PE, LEED AP, serves as Hargrove's Refining Electrical & Instrumentation Engineering Leader with experience on projects from estimation through construction, specification of major electrical equipment, design of detailed electrical and instrumentation systems, and project leadership.

Jake has supported both Greenfield and retrofit projects that support technological advancement and environmental improvements for clients in multiple industries, ranging from paper mill production increases utilizing recycled paper to refining projects to enhance waste handling and improved emissions control.

He is an active member of the USA Alumni Association and served on the Board of Directors for Hands on South Alabama.

2015 Mobile Area Chemical Engineer of the Year



Alex Bell, P.E.

Alex Bell, PE, is Hargrove Engineers + Constructor's Mobile Process Engineering Leader with expertise in plant design, operations, project management, and chemical engineering in the refining, foods, and specialty chemicals industries.

Prior to joining Hargrove, he served as the Plant Manager for a food production plant, Director of Manufacturing and Production Superintendent for Evonik Degussa in Theodore, AL and as Senior Process Design Engineer for UOP Honeywell in Chickasaw, AL.

Alex has a Bachelor of Science in Chemical Engineer from Georgia Institute of Technology. Alex served on the board of directors for the Boys and Girls Clubs of South Alabama for 5 years and was co-leader for three years for a youth counseling program for children with divorced parents, sponsored by a local church ministry.

2015 Mobile Area Engineering Manager of the Year

John C. Hailey, Jr., P.E. is the Engineering Manager of the Year. Hailey is a Mechanical/Piping Engineer and Project Manager with Project Design Group, Inc. (PDG). He has been with PDG since 2010.

Hailey received his Bachelor of Mechanical Engineering degree from Georgia Institute of Technology and is a professional engineer registered in Alabama, Florida and Georgia.



John C. Hailey, Jr., P.E.

Hailey has over 29 years' experience in the engineering industry working on projects in the chemical, pulp & paper, foods and energy sectors. He has been responsible for management of numerous capital projects. John has also worked for companies such as Pegasus TSI, CDI Herzog-Hart Engineering, Thompson Engineering, and Raytheon Engineers and Constructors.

John, and his wife Debbie of 33 years have 3 grown children and live in Fairhope. He is an active member of Eastern Shore Presbyterian Church where he serves as an elder and community group leader.

2015 MACE Individual of Special Recognition



Jay Morgan, P.E.

Jay Morgan is the Individual of Special Recognition. Jay is a VDC Manager/Principal Project Manager for Thompson Engineering. He has been employed with Thompson for 18 years.

Morgan graduated from the University of Washington with a B.S. in Building Construction. He also holds professional certification in Virtual Design and Construction from Stanford University.

While at Thompson Engineering, Jay has worked on several projects including Geotechnical, Civil, and Structural projects for the Airbus facility. He has also worked on the Structural and Marine Engineering of two replacement product docks at the Chevron Pascagoula Refinery, among numerous other projects. He holds one patent.

He has won several awards with Thompson including the 2014 Thompson Engineering Empowerment Award.

Morgan is a Board Member with Covenant Christian School and a Mission Committee Member with First Baptist North Mobile.

2015 Mobile Area Mechanical Engineer of the Year

Carl Powell, PE, is a Senior Pulp and Paper Process/Mechanical Engineer for Hargrove Engineers + Constructors with experience serving as project manager/process lead on major projects including converting expansions, optimization projects, winder line installations, material handling, and equipment installations.



Carl Powell, P.E.

Prior to joining Hargrove, Carl served as the Production Manager for Sony Electronics, Superintendent of Technical Services for Georgia Pacific, and as a Kimberly-Clark's roll tissue converting and rewinder expert.

Carl is passionate about mentoring young engineers and is on the "A Team" for Jubilee BEST Robotics, helping to build (and sometimes design) the game field for a middle and high school robotics competition.

2015 Mobile Area Engineering Educator of the Year

Dr. Sam Russ is an Associate Professor of Electrical Engineering at the University of South Alabama. He is has a BSEE and a Ph.D. from Georgia Institute of Technology and has been at USA for about 8 years. Before coming to USA, Dr. Russ worked at Scientific Atlanta as an engineering manager in research and development. Dr. Russ' unique combination of experience and technical knowledge has made him one of the most popular professors in the Electrical Engineering Department. Dr. Russ has revised the content of many classes in the department to incorporate real-world examples, particularly in his Computer Network Security and Signal Integrity classes. He also heads up the electrical engineering capstone design courses.

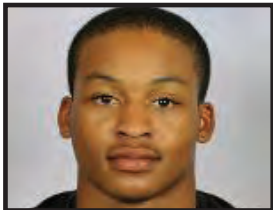


Dr. Samuel H. Russ

Dr. Russ is also very active in private consulting and has over 25 US patents and four European patents, with 25 more patents under review. He has authored a dozen referred journal articles, 23 referred conference proceedings and two book chapters.

Dr. Russ is a member of IEEE, the IEEE Consumer Electronics Group, The IEEE Computer Society, and Tau Beta Pi. He is the chair of the EE Department Open House committee and an active participant in the Engaging Youth in Engineering (EYE) program. He has been very active in organizing demonstrations and activities for Mobile County middle and high school students and has made numerous recruiting trips to area high schools.

2014 MACE-Raburn Engineering Scholarships



Shawn Morris

Shawn Morris is a junior pursuing a second Bachelors degree in Civil Engineering at the University of South Alabama. In 2009, he graduated from Pine Forest High School in Pensacola. He went on to receive a Degree in Mathematics at Birmingham Southern College. He graduated with honors from high school with a 4.39 GPA as well as Birmingham Southern College.

Morris is a leader in the Gathering campus ministry, where he serves as an encouraging light to the University of South Alabama campus. He is also a member of American Society of Civil Engineers (ASCE), Reformed University Fellowship (RUF), and Associated General Contractors of America (AGC).

Shawn looks forward to working in the engineering field, building success stories one project at a time.



Jacob Cooley

Jacob Cooley is currently a sophomore pursuing an Electrical Engineering degree at the University of South Alabama. He graduated from Satsuma High School and was attracted to the USA campus and the rising engineering program. He says that he looks forward to delving into the variety of the electrical engineering field in the search for a specialty that best fits his motivations.

Cooley has worked for Pure Power, Inc. for 7 years as an electrical apprentice and is currently at Red Lion Controls as a software engineering intern. He has expressed his gratitude and appreciation to MACE for helping him not only financially, but by increasing his motivation to achieve his academic goal.

Society Awards for Outstanding Service

American Society of Civil Engineers Mobile Branch	Brett Morrow
International Society of Automation Mobile Post	Lyn Givens
Institute of Electrical and Electronics Engineers Mobile Chapter	Dr. Mohammad S. Alam
American Society of Mechanical Engineers Mobile Chapter	Lanier Cauley
Society of American Military Engineers Mobile Post	Todd H. Boatman
Am. Society of Heating, Refrigerating, & Air-Conditioning	Scott Peach

Mobile Area Engineer of the Year Past Recipients

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

Young Engineer of the Year Past Recipients

Kenneth W. Nichols	2014	David M. Webber	2002
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

2015 MACE Committee

Chairperson	Melissa O'Sullivan, Volkert Inc.
Industry	Barbara Turens, Austal USA
ASPE/Awards	Ray Miller, Project Design Group, Inc.
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.
Treasurer	Van Baggett, Daphne Utilities
Facilities	Kenny Nichols, Volkert, Inc.
Programs	Ashley Babb, Project Design Group, Inc.
Event Support	Thad Hendrix, Project Design Group, Inc.
Event Support	Amy Driskell, Hargrove Engineers+Constructors

2014 - 2015 MACE Awards Committee

Chairman/ASME/ASHRAE	Ray Miller, Project Design Group, Inc.
Government	Matthew Jones, ALDOT
ASCE	Brett Morrow, Volkert, Inc.
SAME/Private Practice	Mike Thompson, Thompson Engineering, Inc.
ASPE/Industry	Barbara Turens, Austal USA
IEEE	Tom Thomas, University of South Alabama

Mobile Area Council of Engineers Member Societies 2013 - 2014

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 Jeff Duplantis, President	3rd Wednesday 225.921.3067 jeffrey.l.duplantis@mwhglobal.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@southal.edu

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.

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Engineering Manager of the Year

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