CMG Vision for the Future
The future takes CMG engineers and staff across the country and around the world designing projects for the rigging, utility, heavy lift, crane, cargo and shipping industries. As demand for services grows so will the CMG team of professionals. The plan is to expand as needed, while continuing to allow the founders of CMG to play a key role in project design and execution.

CMG’s future includes clients who want the best solution and approach to every project. CMG creates its designs based on the client’s needs in order to insure long-term customer satisfaction.

CMG will continue to build a solid reputation and shape the future of engineering by bringing innovative ideas to the industry.

Why Clients Keep Coming Back to CMG
Clients keep coming back to CMG because they know what to expect: superior quality with unparalleled personal service. Eighty five percent of CMG projects are the result of repeat business.

Gary Cowles, David Murphy and John Glover take a hands-on approach with every project. They tackle each task with the client’s operation and maintenance in mind. They also have extensive experience in finding solutions to existing problems. “New ideas for old problems,” that’s what sets them apart from the rest. Not only does CMG have a record of success, it offers competitive rates and a broad range of expertise.

“CMG has helped my business through several projects. The firm has done total design on projects that have included conveyors, hoppers and the re-location of a stacker/reclaimer. CMG engineers also finished a project to speed up conveyors to handle more cargo. Not only are they designers, they are problem solvers. I have turned to CMG on many occasions for help resolving problems. From finding odd parts to re-designing equipment to use common parts, the engineers of CMG always have the answers I need. To keep it short, CMG has been a great asset to my business. ”

-Randy Gossett
McDuffie Coal Terminal

“If you’ve got a problem, we can solve it.”
- John D. Glover
Inside Cowles, Murphy, Glover

Gary Cowles, David Murphy and John Glover are the founders of CMG. They have developed a crew consisting of eight highly skilled and experienced engineers including five civil engineers, two mechanical engineers and one electrical engineer. Two designers, a drafter and two clerical personnel complete the CMG team.

CMG is staffed by a tight-knit group of experienced, educated, hardworking experts who each play a key role in project design and execution. Together they provide innovative resources designed to ensure that each client stays ahead of the competition.

Collectively, the engineers at CMG have more than 100 years of experience in marine applications, material handling, rail design, commercial and industrial buildings, shipyard facilities and civil site work.

CMG is a member of the following professional associations:
• American Society of Civil Engineers, ASCE
• American Society of Mechanical Engineers, ASME
• National Society of Professional Engineers, NSPE

In addition to professional work, the CMG team is dedicated to staying involved in the communities it serves. CMG supports national organizations such as the American Cancer Society and stands behind worthy causes along the Gulf Coast like the Thomas Hospital Foundation and Mary’s Shelter for pregnant women. CMG is proud to be involved in organizations and programs that make a difference in the lives of people with whom they live and work.

“Gary Cowles and John Glover worked for me as design and project engineers for a number of years prior to their leaving our company to form their own professional engineering company. During the time they were with our company, which required them to travel extensively worldwide, they excelled in every assignment given to them. Since forming their own company, I have worked with them on a number of charitable projects for which they had volunteered their services and found their work to be highly professional and innovative. I would have no hesitation in recommending Cowles, Murphy, Glover & Associates to any one seeking the best in professional engineering services.”

~ Robert B. Barnett
Gottlieb Barnett & Bridges (now Shaw GBB)
Gary D.E. Cowles,  
Civil/Structural Engineer

Gary Cowles has been tackling engineering projects along the Gulf Coast and around the world since he graduated from Auburn University in 1987 with a degree in civil engineering. He also holds a Bachelor of Science degree from Spring Hill College.

Gary is a registered Professional Engineer in Alabama, Georgia, Florida, Louisiana, South Carolina, Kentucky and Mississippi and is a member of the American Society of Civil Engineers and National Society of Professional Engineers. He is also a member of the Tau Beta Pi –national engineering honor society and civil engineering honor society- Chi Epsilon.

David E. Murphy,  
Structural Engineer

When David Murphy graduated from Auburn University in 1987, he wasted no time in putting his civil engineering degree to work in his home state of Georgia. He worked for Georgia Power Company for 16 years before joining fellow Auburn graduate Gary Cowles to form Cowles & Murphy Engineering in 2000.

David has received numerous awards during his career including the Milliken Spirit Award in 1995 for his work in rebuilding the company’s plant. That same year he was again honored with an Outstanding Achievement Award for executing the first sale of an electric boiler to the textile industry.

David is a member of the Georgia Power Company co-op advisory committee, American Society of Civil Engineers and Chi Epsilon.

“Whatever it is, we can engineer the solution.”  
- Gary D.E. Cowles
John D. Glover,  
Mechanical Engineer

John Glover has a Bachelor of Mechanical Engineering degree from the University of South Alabama. He joined Gary Cowles and David Murphy in 2002 to form Cowles, Murphy, Glover in Mobile, Alabama.

John is a Registered Professional Engineer in Alabama, Florida, Georgia, Mississippi and Louisiana. He is a member of the American Society of Mechanical Engineers and Exam Standards for the National Council of Examiners for Engineering and Surveying (NCEES).

“Working with Cowles, Murphy, Glover and Associates, as the general contractor on several projects we have never worked with a better engineering firm. They are what we call a “hands on” firm. When you need them at the jobsite they are there. When you need answers to requests for information, you get them in a very timely manner so as not to slow up the project. When you need advice or clarification they do not hesitate. I just can’t say enough good about them. All of us at Thomas Construction do not hesitate to recommend them and in fact will be using them on our own developments in the future.”

L. P. (Larry) Thomas  
Thomas Construction,  
a division of Thomas Industries, Inc.
The People of Cowles, Murphy, Glover

Allen J. Palmer, Civil/Structural Engineer
Allen Palmer brings more than 25 years of engineering experience to the CMG team. Allen earned his civil engineering degree in 1973, graduating with honors from Iowa State University. He completed postgraduate work in structural engineering at the University of Pittsburgh.

Allen is a Registered Professional Engineer in Mississippi and a member of Tau Beta Pi-national engineering honor society. He is a member of the American Society of Civil Engineers and a member of the National Society of Professional Engineers.

A.J. Johnson, Mechanical Engineer
A.J. Johnson provides a fresh prospective to CMG as a recent graduate and the newest member of the team. A.J. graduated from Auburn University in 2006 with a bachelor’s degree in mechanical engineering.

A.J. is a member of Pi Tau Sigma Honor Society and the American Society of Mechanical Engineers. A.J. has also been involved with Habitat for Humanity.

Triple Sawyer, Civil/Structural Engineer
Triple Sawyer is another young member of the CMG team of engineers. He received his Bachelor of Science degree in civil engineering from the University of South Alabama in 2005.

Triple first joined CMG in 2005, but left the firm for a few years to complete a Master of Science degree in structural engineering at Auburn University. There he served as a graduate research assistant studying and developing bridge designs to withstand the powerful forces of a hurricane. Upon graduation in 2008, Triple decided to bring his skills back to the CMG team.

Triple is a member of the American Society of Civil Engineers and has served as the Vice President of the Student Chapter USA.

He was also the recipient of the Miller Engineering Scholarship in 2003 and the Computer Science, Engineering and Mathematics Scholarship in 2004.

Brandon Roberts, Civil/Structural Engineer
Drive and dedication make Brandon Roberts a perfect fit for the CMG team. Long before his college graduation, Brandon was putting in long hours with the firm as a civil engineer co-op intern. From 2002 to 2004, his primary focus was site development for large commercial projects.

In 2007, Brandon joined CMG as a structural engineer. He graduated from Auburn University in 2008 with a Bachelor of Science degree in civil engineering.

Brandon is a member of the American Society of Civil Engineers.

Reid Zuelzke, Civil/Structural Engineer
Reid is a graduate of Auburn University where he was recognized on the National Dean’s List. He holds a Bachelor of Engineering Degree and a Master of Civil Engineering Degree. Before he joined the CMG team in 2008, he was a Junior Structural Engineer for Schmidt Consulting Group where he was involved in the design of commercial and municipal buildings. Reid is a member of the American Society of Civil Engineers.
James Meigs, Electrical Designer/Engineer
James Meigs has more than 25 years of electrical design/engineering experience. His career has included work with South Company Services; Bender Shipbuilding; Alabama Shipyard; Atlantic Marine; Gottlieb, Barnett and Bridges; and Cowles, Murphy, Glover.

Even with years of experience under his belt, James is eager to keep learning. He is currently attending the University of South Alabama to earn a degree in electrical engineering. He will graduate in the summer of 2009.

James is a member of IEEE (Institute of Electrical and Electronics Engineers) and Eta Kappa Nu honor society.

Lonnie Peck, Draftsman
In 2005 Lonnie Peck earned an Associate in Applied Science degree in drafting and design. Lonnie has also completed Revit training and AutoCAD training.

Before taking a position with CMG in June of 2004, Lonnie worked with Fulton-Haley Metal Products and Ingalls Shipbuilding.

Lonnie spent 16 years in the military serving from 1982 to 1998 in the U.S. Navy.

Ryan Cunill, Draftsman
Ryan is a proud graduate of Bishop State Community College and holds an Associate Degree of Drafting and Design Technology.

He brought his expertise to CMG in 2007 specializing in civil, structural and mechanical drafting for industrial projects. His work also includes 3D drawings for heavy lift, heavy haul and crane and facility modeling and interface.

Before joining CMG in 2007, Ryan was a designer for Gottlieb, Barnett & Bridges in Mobile.

Vincent Hoffman, Draftsman
Vincent Hoffman’s love of drafting began in 1979 in middle school. That’s when he began taking drafting classes and then continued throughout high school. Upon graduation, Vincent enrolled in the Coastal Training Institute and received a drafting diploma in 1985.

Vincent has a vast array of experience in drafting from board drawings for residential house plans to CAD drawings for pulp & paper and petro-chem projects.

His career has included work for Rester & Coleman Engineering; Automation Technology Incorporated; I.T.I. Engineering, a division of Brown & Root and ECS Engineering. Vincent joined the CMG team in 2008.

Sara Zieman, Office Manager
As the office manager, Sara Zieman is the person who keeps the CMG machine running smoothly.

Sara earned a Bachelor of Science degree in 2006 in finance and economics from Spring Hill College. Her experience includes work in retail management, technical recruiting and wealth management.

In addition to receiving numerous awards and scholarships for college, Sara has found ways to give back to the community. She has given of her time to help local students by tutoring at middle schools. Sara has also spent time at an area homeless shelter helping residents prepare for their G.E.D.
CMG Projects

Mechanical
• Ashland Place Expansion 2005-present
• Quality Filter Expansion 2003-2004
• Boland Skate Center and Bowling Alley 2004-2005
• D’Olive Fire Grill Restaurant 2007
• Tacky Jacks Fish House and Kitchen Expansion 2005-present
• Creek Indian Restaurant

Electrical
• Ashland Place Expansion 2005-2007

Civil
• GE Wind Rail and Site Expansion 2006-2007
• IPSCO Rail and Site Expansion 2003-2006
• Fairhope Museum Site 2007- present
• Starbucks & McDonald’s Site Development & Design 2006

Marine Terminals
• ABT Mooring and Tank Repairs 2007-present
• Plains Marketing Mooring 2007
• GAO Dock and Mooring Analysis 2008
• AEC Barge Fleeting 2004
• Atlantic Marine Dredge Spoils Area Repair 2007

Marine Fabrication
• C&G Boatworks 2000-present
• Horizon Shipbuilding 2005-present
• LaForce Shipbuilding 2000-present

Heavy Lift - ONGOING
• McAbee – Plant Christ – Boiler/Super Heater for Gulf Power
• Barnhart Plant Hopkins – HRSG Boiler Tubes, Generator & Combustion Turbine for the City of Tallahassee
• Barnhart Flint Hill Refinery – Crack Towers
• Barnhart Plant Gorgus – MCC Control Buildings and Ductwork

Industrial Rail
• GE Wind Rail and Site Expansion 2006-present
• IPSCO Rail and Site Expansion 2003-2006

Material Handling
• McDuffie Terminal Dock 1 Expansion 2006-present
• Bulk Material Handling Plant Barge Loader 2006
• ICRMT – Conveyor Addition 2004
• McDuffie Hopper Modifications 2003

Alabama Office
457 St. Michael Street, Mobile, Alabama 36602
Phone (251) 433-1611 Fax (251) 433-1411

Georgia Office
484 Stovall Road LaGrange, Georgia 30241
Phone/Fax (706)-242-9202
COMMERCIAL CLASSIC POOLS

CMG Services:
Design for Site Development,
Building Foundation
& Structural Design
Daphne, Alabama

COMMERCIAL BUILDING & RESIDENCE

CMG Services:
Engineering Design for Development
of Two-Unit Residential Building
Fairhope, Alabama

DOBSON BUILDING

CMG Services:
Engineering Design for Development
of First Floor Office & Second/
Third Floor Residence
Fairhope, Alabama
COMMERCIAL

FAIRHOPE MUSEUM

CMG Services:
Engineering Design for
Renovation & Expansion of
Old Fairhope City Hall
Fairhope, Alabama

OLD CHURCH STREET
DEVELOPMENT

CMG Services:
Engineering Design for
New Commercial/Residential
Development
Fairhope, Alabama

STARBUCKS

CMG Services:
Site Development
Alabama, Florida &
South Carolina
SCHOOL SCIENCE LAB
ST. MARY’S CATHOLIC

CMG Services:
Design for Renovation Including
New Lighting, Three Eyewash
Stations and Sink Plumbing
with Dilution Tank.
Mobile, Alabama
CMG Services:
Design & Inspection for
Roof Refurbishment of Historic
150 Year Old Building -
Design Requirements
Included Re-use of Existing
Heavy Timber Truss Members
to Preserve the Historical Integrity
Monticello, Florida
CAFI HEADSTART

CMG Services:
Design & Construction Management - 18,000 sq. ft.
Carrollton, Georgia

TRAINING FACILITY
AUBURN ATHLETIC DEPARTMENT STRENGTH

CMG Services:
Foundation Engineering Design for Construction Phase Retaining Wall of $3 Million Addition
Auburn, Alabama
INDUSTRIAL

BOISE SAWMILL

CMG Services:
Piping & Equipment Layout
Design for Three New Air Compressors & a Five Gallon Vertical Receiver
Jackson, Alabama

THERMOTITE PLANT AT BREDERO SHAW

CMG Services:
Foundation Design & Details & Electrical Design for Installation
Theodore, Alabama
INDUSTRIAL

CHIPCO

CMG Services:
Refurbished Wood Chip Radial Stacker from Existing Radial Stackers.
Mobile, Alabama

SANDERS LEAD

CMG Services:
Modified Hoist Crane used to Load Mold Die into Infection Molding Equipment.
Troy, Alabama

ALABAMA BULK TERMINAL

CMG Services:
Replace Boiler System and Heating Coils in Tank 10. ABT uses Hot oil to Heat Crude in Storage Tanks.
Mobile, Alabama
SOUTHERN CEMENT
CEMENT LOADING
FACILITY

CMG Services:
Design Including Pneumatic
Conveyance Equipment for
Unloading Rail Cars into
Silos & Transfer to On-site
Precast Facility
Newnan, Georgia
SOUTHERN CEMENT RAIL UNLOADING FACILITY

CMG Services:
Analysis, Design and Construction Management for Pneumatic Rail Unloading Cordele, Georgia
ICRMT

CMG Services:
Design for Extension & Reversal of
Conveyor C-11
Convent, Louisiana
OVERHEAD BRIDGE CRANE STEELMILL

CMG Services:
Design with Magnetic Lift System Used to Transfer Steel Plates from Rail Car to Production Facility Axis, Alabama

MCDUFFIE DOCK 1 EXPANSION

CMG Services:
Design for Modification of Transfer Tower Extension - Provides Transfer of Material to Unit Train Loader Station or to Stacker/Reclaimer Mobile, Alabama
MATERIAL HANDLING

MCDUFFIE COAL TERMINAL

CMG Services:
Engineering Design for Barge Loader #3 - Allows Barge Loading While Utilizing Dock 1 for Mobile, Alabama Import Ship Unloading
STEEL MILL

**CMG Services:**
Foundation Design for Scrap Yard
Material Handling Crane - Structural & Mechanical
Engineering design for Overhead Mixing Charge Bucket for Steel Making Process
Axis, Alabama
40 YEAR OLD
TIMBER RAIL BRIDGE

CMG Services:
Horizontal & Vertical Control, Pile & Foundation Design, Rail Design & Construction Monitoring

Bridge was replaced without interruption of rail traffic
Ozark, Alabama
BRIDGES

BRIDGE PIER FOUNDATION
PILING INSTALLATION

CMG Services:
Analysis & Drawings of Coffer Cell
Dale County, Alabama

FANNING ROAD
BRIDGE REPLACEMENT

CMG Services:
Civil/Structural Design
Escambia County, Florida
BRIDGE GIRDER INSTALLATION

CMG Services:
Analysis for Construction Equipment Loading During Bridge Erection
Marshall County, Alabama
PEDESTRIAN BRIDGE
AT ROCK CREEK

CMG Services:
Foundation Design
Fairhope, Alabama

ALABAMA RIVER CUTOFF BRIDGE

CMG Services:
Bridge Design, Permitting & Inspection
Baldwin County to Clarke County

BRIDGE DESIGN

CMG Services:
Bridge Design
Santa Rosa, Florida
CARMOUCHE BRIDGE

CMG Services:
Bridge Design for Abrahms
M1A1 Tank Traffic
Fort Benning, Georgia

CACTUS ROAD BRIDGE

CMG Services:
Bridge Design for Artillery
Range Vehicles
Fort Benning, Georgia

DEER CREEK BRIDGE

CMG Services:
Bridge Design & Decorative Barrier
Rail Analysis & Design
Montgomery, Alabama
FANNING ROAD BRIDGE
CMG Services:
Bridge Design
Escambia County, Florida

WHITE ROAD
CMG Services:
Bridge Design
Baldwin County, Alabama

BARRINEAU BRIDGE
CMG Services:
Bridge Design
Escambia County, Florida
KALMAR RTG OFF LOAD

CMG Services:
Off Loading Plans & Dock Analysis
for the Off Loading of Four
New Kalmar 50LT RTG’s
for P&O Ports New Orleans Facility
New Orleans, Louisiana
REFINERY MODULAR PIPE RACKS

CMG Services:
Civil Site Improvements,
Roll-off & Transportation
Drawings for Modular
Pipe Rack Units
Joliet, Illinois
HEAVY LIFT

REFINERY SCRUBBER VESSEL

CMG Services:
Civil Site Improvements,
Jacking Plans, Roll-off &
Transportation Drawings
Joliet, Illinois

SETTING NEW REFINERY
REFINERY
REACTOR VESSELS

CMG Services:
Engineering Support
Rosemount, Minnesota
POWER GENERATION FACILITY
FLUE GAS SCRUBBER PROJECT

CMG Services:
Lifting Lug Design, Calculated Center of Gravity, Rigging Analysis, Lift Plans & Transportation
Drawings for Flue Gas Scrubber Duct Modules
Parrish, Alabama

POWER GENERATION FACILITY

CMG Services:
Rigging Design & Lift Plans for Installation of New Modular Switchgear & Electrical Control Units
Parrish, Alabama
HEAVY LIFT

POWER GENERATION FACILITY
FLUE GAS SCRUBBER
DUCT MODULES

CMG Services:
Lifting Lug Design, Rigging Analysis,
Lift Plans & Transportation Drawings
Bucks, Alabama

POWER INDUSTRY
TRANSPORT BARGES

CMG Services:
Inspections & Structural Verification
for Several Barges Used to
Transport Duct Modules to Flue
Gas Scrubber Projects
Parish, Alabama; Bucks, Alabama;
Pensacola, Florida
CMG Services:
Rigging Design, Crane Layout & Lift Plans
for Rail Off Loading & Installation of
Heat Recovery Steam Generator (HRSG)
Packaged Tube Bundles. Installation
Involved a Four-Crane Pick for Lifting
& Extracting 250 Ton Packaged
Tube Bundles from Manufacturer’s
Strongback Sled
Tallahassee, Florida

“Cowles, Murphy, Glover & Associates
is a valuable asset to our business. Their function is to assist us with our
engineering overflow work and are always responsive, accurate, and thorough. Their professionalism and expertise have helped us tremendously
with our company’s growth in recent years.”

- Scott R. Fletcher, PE, SECB,
Manager - Design Engineering
Barnhart Crane & Rigging, Inc.
COMBUSTION TURBINE & GENERATOR

CMG Services:
Design Plans for Rail Off Loading, Transportation & Installation
Tallahassee, Florida
PORT EVERGLADES
INBOUND/OUTBOUND
GATE FACILITY

CMG Services:
Engineering Design for New
Inbound/Outbound Gate Facility
Including Clerk Booths, Truck Scales,
Canopies, Site Drainage,
Asphalt/Curb Design, Striping &
Temporary Office Space
Port Everglades, Florida
ALABAMA ELECTRIC
COOPERATIVE
CONSTRUCTION ACCESS
CRANE BRIDGE

CMG Services:
Design for Bank Stabilization
Pile Installation
Leroy, Alabama
MCDUFFIE COAL TERMINAL

CMG Services:
Design for Replacement of Barge Haul and Coffer Cell at the Alabama State Port Authority
Mobile, Alabama
MARINE ALABAMA ELECTRIC COOPERATIVE

CMG Services:
Barge Fleeting Dolphin Design
Leroy, Alabama

ALABAMA ELECTRIC COOPERATIVE

CMG Services:
Design for Installation of
Raw Water Intake Sheet
Pile Enclosure
Leroy, Alabama

CONTAINER TERMINAL CHOCTAW POINT

CMG Services:
Pile Load Test Frame Design & Reaction Pile Design
Mobile, Alabama
ST. GEORGE ISLAND BRIDGE

CMG Services:
Analysis, Design & Details for Support of Precast Bridge Bents used During Bridge Construction
St. George Island, Florida
CMG Services:
Analysis, Marine Facility
Design & Construction
Management
Mobile, Alabama

"The engineering firm of Cowles, Murphy, Glover is extremely conscientious and all good family men. When they start a project, from the initial meeting through to the finished project, they back up their work! I always send others with engineering needs to them. They also have proven to be a trusted source for contractor recommendations and cutting costs on project material and equipment."

~ Mickey Cook, C&G Boatworks, Chief Operating Officer