



**ANALYTICAL & COMBUSTION SYSTEMS, INC.
CORPORATE PROFILE
October 2016**

A) OVERVIEW:

Analytical & Combustion Systems (ACS) was founded in 1989 as a Manufacturer's Representative Organization and Service Group. Our headquarters are located in New Milford Connecticut, and we are within a 90-minute drive of our customer base in the states of Connecticut, New York, New Jersey and Delaware.

The company focus is Performance and Technology Improvements for:

- Medium to large commercial heating plants
- Industrial Powerhouse
- Utility powerhouse/cogeneration facilities.

The company represents a complete line of power plant equipment manufacturers as listed below. Capabilities include our Performance Projects Group which provides

- Full system evaluation
- Procurement
- Installation supervision and startup.

ACS possesses the expert knowledge/ equipment to maintain/ upgrade boilers, burners and boiler controls from simple heating plants to fully metered combustion controls with SCADA systems. ACS' Fuel Oil handling expertise ranges from simple boiler and generator fueling systems to large data center applications with advanced SCADA systems.

With headquarters' proximity to the major CT/ NY/ NJ metropolitan areas, our highly-qualified Sales/ Service Engineers are just minutes away from assisting you with all your plant improvement and service needs.

The primary area of coverage is the States of Connecticut, New York, New Jersey and Delaware. For the greater New York City, Metropolitan area, we include all of New York City's Five Boroughs, Long Island, Westchester, Orange, Rockland, Ulster, Dutchess, and Putnam & Sullivan Counties in New York.



ANALYTICAL & COMBUSTION SYSTEMS

Unit 93 – South End Plaza

New Milford, CT 06776

Tel: 860-210-7932

Fax: 860-210-7934

ACS personnel have Mechanical and Electrical Engineering degrees and the knowledge to design boiler installations, controls retrofits and fuel oil systems. Capabilities include: AutoCAD design/drafting, Configuration of Combustion Controls (Preferred Instruments, Rosemount, Moore Products/Siemens, Hays Cleveland...and others). PLC experience includes Allen Bradley, Control Microsystems, GE Fanuc, PLC Direct and others. SCADA Software experience includes: Intellution, Wonderware, Iconics, and Emerson Management Software and others.

For additional information and updates on current projects and case studies, please visit our website, LinkedIn and Facebook pages as listed below. You may also email us at acssales@acs-ny.com and acsparts@acs-ny.com.

- www.acs-ny.com
- [LinkedIn](#)
- [Facebook](#)

B) MANUFACTURING REPRESENTATION:

ACS proudly represents the following Manufacturers:

- Johnston Firetube Boilers- www.johnstonboiler.com
- Preferred Utilities Fuel Handling, Pump Sets, Controls, Instrumentation- www.preferred-mfg.com
- English Watertube and Solid Fuel Boilers- www.englishboiler.com
- Zeeco Ultra Low NOx Gas and Oil Burners and Ancillaries- www.zeeco.com
- Nationwide Boiler Rentals & SCR Systems - www.nationwideboiler.com
- & www.catastak.com
- Cain Industries Heat Recovery and Economizers- www.cainind.com
- Johnson Low Emission Gas and Oil Burners- www.johnsonburners.com
- QEL Gas Detection- www.qelsafety.com
- Rovanco Underground Piping- www.rovanco.com
- Industrial Steam Scotch Box Boiler- www.industrialsteam.com
- LES Deaerators and Surge Tanks- www.lesboilers.com
- Chiminee Liners and Breeching- www.chemineelining



C) SALES AND ENGINEERING PERSONNEL

Grant Bowman has over 33 years of experience as a sales/project/service engineer in the area of boilers, burners, and combustion control systems. Mr. Bowman spent (15) years with Preferred Instruments, and then spent several more with ABLE Co, of Milford CT, and Miller Proctor Nickolas Inc., before joining ACS in 1997. Notable projects include Low NOx burner conversions and control retrofit projects at Co-Op City in the Bronx, Columbia Presbyterian Hospital, St. Barnabas Hospital, Parkchester Houses, Lehman College, and City College of NY. Mr. Bowman has a BBA degree from Western CT State College, and a BSME degree from Fairfield University.

Mike Beatty has over 34 years of experience as a sales/project/service engineer in the area of boiler plant projects. Mr. Beatty joined ACS in 1998. He was previously the national sales manager for Preferred Instruments of Danbury, CT., and a sales engineer with Miller Proctor Nickolas, Inc., of Tarrytown, NY. Notable projects include combustion control and SCADA system installations at Starrett City in Brooklyn, Manhattan and Creedmore Psychiatric Centers, The State Office Campus powerhouse in Albany, NY., and over 100 boilers retrofit in the NYC Housing Authority. Mr. Beatty has an ASME degree from Waterbury Technical College.

John Haber has over 28 years of experience as a sales engineer designing fuel oil handling systems for mission critical life support/data centers, boiler loops, backup generators, flue gas pipe systems and generator exhaust systems. Notable projects: World Trade Center Tower 3, PATH Hall and 911 Memorial, LIRR, Grand Central Terminal, United Nations, Madison Square Garden and Fox News. Mr. Haber has field experience in startup and troubleshooting fuel oil pumping, filtration, multi-tank and distribution systems. Previously Mr. Haber worked for Preferred Instruments of Danbury, CT and Miller Proctor Nickolas, Inc., of Tarrytown, NY.

Ed Twiss has over 23 years of experience in design/ startup of control systems and project management. His experience includes single/multi loop controllers, PLC's and SCADA systems. Mr. Twiss previously worked for International Paper, Infinity Control Systems, PCI Ozone and Control Systems and Union Carbide. Notable projects include: Croton Water Filtration Facility Central Heating Plant, Combustion Controls upgrade at Eastern Correctional Facility, and Central Heating Plant at



ANALYTICAL & COMBUSTION SYSTEMS

Unit 93 – South End Plaza

New Milford, CT 06776

Tel: 860-210-7932

Fax: 860-210-7934

Greystone Park Psychiatric Hospital. Mr. Twiss has a MS degree in manufacturing engineering, a BS degree in electrical engineering, a graduate certificate in project management and is a NY state licensed Professional Engineer.

Bill Gurski has over 25 years of experience in sales, executive business management, projects, and service engineering in the utility and industrial boiler markets. Bill's previous work experience includes Alstom Power, John Zink (working for Todd Combustion and Hamworthy Peabody), and Zeeco Power. Bill has provided boiler and burner product support, technology and engineering for most major utilities and many industrial customers such as DuPont, Phillips 66, Shell, Exxon, and numerous others. Mr. Gurski has a BS in Industrial Technology from Central Connecticut State University. Bill has also written and published numerous technical articles in engineering and chemical publications over the past 20 years. Bill is also associated with major boiler and industrial plant owner trade associations.

Jeff Maxson has over 10 years of product experience with Analytical and Combustion Systems. Jeff joined ACS after 25 years of business management and ownership of a privately held commodity products business in Connecticut. Jeff currently manages our gas detection product line and also assists with our business development for our fuel oil forwarding products.

Rich Calcavecchio has 5 years of product experience with Analytical & Combustion Systems after a joining ACS with 27 years of business administration experience in modeling & trading convertible securities in the financial services industry and holding directorship positions in municipal finance, accounting and operations management. Mr. Calcavecchio has a MBA in Banking Finance & Investments from Hofstra University and a B.S in Business Administration from SUNY College at Fredonia. Rich is also a PADI Certified Scuba Diver and a charter member of the Woods Hole Oceanographic Society. A consummate professional and team player, Rich is assisting in the development of our financial and business models for new products and aftermarket services.



D) SERVICE PERSONNEL

Mike Toussaint has over 28 years of experience as a combustion engineer designing and commissioning combustion control strategies for microprocessor based single-loop controllers, PLC's, and PC-based SCADA systems. Typical applications include fully metered cross-limited combustion control with oxygen trim for use on large watertube boilers. Mr. Toussaint previously worked for Preferred Instruments of Danbury, CT. Mr. Toussaint has an ASEE degree from Waterbury Technical College and is a licensed Stationary Engineer in the State of CT. He has certification for service on Allen Bradley PLC's, Bristol Babcock PLC's, Autoflame Controls, Preferred BMU's, and Preferred PCC-III combustion controls.

Kent Buckley has over 33 years of experience as a boiler/burner service technician commissioning firetube/watertube, low and high-pressure boilers. He is licensed in the State of CT for heating and refrigeration, has a Stationary Engineer License for the State of CT, and has extensive experience working with pressure, air, and steam atomized oil burners. He has manufacturer's certification for service on Powerflame, Iron Fireman, and ST Johnson burners, Johnston Boilers, Autoflame Controls and Preferred Combustion Controls.

Keith Beatty has 10 years of experience as a service technician tuning firetube boilers. He is licensed in the State of CT Heating Ventilating & Cooling program. He is OSHA certified, and has factory training, certification and field experience on the Autoflame products, Preferred BMU Controller, and on Preferred Fuel Oil Systems.

Jeff Carorossi has 11 years of field experience as a startup technician working on fuel oil pumping and management systems, plus full commissioning on our gas detection systems. In addition, he worked at Preferred Utilities Manufacturing Corporation for 8 years as a fuel oil systems design engineer. He is OSHA certified, and has certification on Preferred Fuel oil management systems.

Mike Martin joined ACS in 2016 as a service technician with focus on firetube boilers, fuel forwarding systems plus commissioning on our gas detection systems. Mr. Martin has a BS in business administration and is currently pursuing a BS in mechanical engineering.



ANALYTICAL & COMBUSTION SYSTEMS

Unit 93 – South End Plaza

New Milford, CT 06776

Tel: 860-210-7932

Fax: 860-210-7934

E) PRODUCTS

The products ACS provides are as follows:	ACS Represents the following Principals:
<ul style="list-style-type: none">➤ Watertube Boilers➤ Firetube Boilers➤ Ultra-Low NOx Gas / Oil Burners➤ Combustion Control & BMS➤ SCADA Systems➤ Boiler Feed and Surge Tanks➤ Oil Pump Sets➤ Underground Piping Systems➤ Deaerators➤ Heat Recovery Systems➤ Gas Detection Systems➤ Lining and Breeching Systems➤ Rental Boilers➤ SCR Solutions	<ul style="list-style-type: none">➤ Johnston Boiler➤ LES Boiler➤ Preferred Instruments➤ Preferred Utilities➤ English Boiler➤ Nationwide Boiler➤ Nationwide Environmental➤ Rovanco Piping Systems➤ Johnson Burner➤ Zeeco Power Burner➤ Industrial Steam➤ Chiminee Lining➤ QEL Gas Detection➤ Cain Industries



ANALYTICAL & COMBUSTION SYSTEMS

Unit 93 – South End Plaza

New Milford, CT 06776

Tel: 860-210-7932

Fax: 860-210-7934



***YOUR SOURCE FOR INTEGRATED
PERFORMANCE PROJECTS,
BOILER, FUEL OIL AND PLANT
EQUIPMENT SALES AND SERVICE.***

**PROJECT SPECIFICATION DEVELOPMENT - EFFICIENCY PERFORMANCE
CONTRACTS - UTILITY HEAT RATE IMPROVEMENT -
HOUSING / HOSPITAL / UNIVERSITY HEATING SYSTEM EFFICIENCY
IMPROVEMENTS AND COST EFFECTIVE UPGRADES -
BURNER MANAGEMENT / COMBUSTION CONTROL SYSTEMS / SCADA -
EMERGENCY GENERATOR FUEL OIL SYSTEMS - FUEL OIL SYSTEM UPGRADES -
FUEL CONVERSIONS - FIELD SERVICE / COMMISSIONING -
PDH TRAINING SEMINARS**

**acssales@acs-ny.com
acsparts@acs-ny.com
www.acs-ny.com**



ANALYTICAL & COMBUSTION SYSTEMS

Unit 93 – South End Plaza

New Milford, CT 06776

Tel: 860-210-7932

Fax: 860-210-7934

5 Old Town Park Road
Unit 93 South End Plaza
New Milford, CT 06776
www.acs-ny.com



P: 800-545-2514
F: 860-210-7934
acssales@acs-ny.com
acsparts@acs-ny.com

Representation, Sales and Service for the following manufacturers:



Fuel Oil Handling Systems / Filtration, Oil Tank Monitoring Systems, Boiler Instrumentation and Controls



Johnston Firetube Boilers, Hot Water / Low and High Pressure Steam to 2500 HP, Wetback designs, Multiple Fuels



10 to 200 KPPH Gaseous, Liquid and Solid Fuel Fired Watertube Boilers, Waste Heat Recovery Systems



Ultra Low NOx Power and Package Gas/Oil Burners, Class 1/2/3 and Special Ignition Systems, Scanners



Watertube / Firetube Rentals and Sales, Ultra Low NOx capable, CataStak SCR systems



Horizontal and Vertical Hot Water and Low Pressure Steam Boiler, Gas / Oil Fired, Packaged Systems



Boiler Condensing / Non Condensing Economizers, Gas & Diesel Cogeneration Systems



Gas / Liquid Burners, Low NOx, New and Retrofit Systems



Industrial Steam Deaerators, Surge and Blow Downs Tanks, Continuous Blow Down Heat Recovery Systems



Factory Designed Breeching, Chimney Liners and Stacks, Single / Double Wall and Special Gas Vent



Gas Detection Systems, Carbon Monoxide / Combustible Gases for Schools / SCA / Parking Garages / Boiler Rooms



Factory Designed/Fabricated Above/Below Grade Piping

Project Specification Development, Efficiency Performance Contracts, Utility Heat Rate Improvement, Housing/Hospital/University-Heating System Efficiency Improvements/Cost Effective Upgrades
Burner Management / Combustion Control Systems / SCADA, Emergency Generator Fuel Oil Systems, Fuel Oil System Upgrades, Fuel Conversions, Field Service / Commissioning, PDH Training Seminars