



TMTS Associates, Inc. is an engineering consulting firm specializing in combustion, air pollution control, solids handling, thermal desorption and the environment. Our services and areas of expertise are listed below.



Pulse Jet Baghouse for Particulate Removal

- Combustion
- Incineration
- Training
- Air pollution control
- Air permitting
- Solids handling and feed prep
- NOx control
- Superfund/UST operations
- Transportation
- Process design
- Specification writing/ procurement
- Process/equipment safety review
- VOC capture and controls systems
- Equilibrium & kinetic combustion calculations
- Lab, bench, and pilot scale testing
- Assistance in selling and procuring used combustion/APC equipment
- Project management
- Cost estimation
- Bid preparation/evaluation
- Loss prevention
- Business & marketing plans
- Sales assistance
- Litigation/expert witness
- Forensic investigations
- Industrial ventilation
- Stabilization
- Low temp thermal treatment of soil and drilling muds
- Energy conservation/CO2 control
- Construction, startup and operations
- Troubleshooting and system testing
- Compliance test plans, test oversight
- RTO, recuperative, catalytic and thermal oxidizers

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PERSONNEL



President Tom McGowan has worked for more than 25 years in technical and business pursuits. These include process/project engineering, development of new processes, system design, process safety, sales, marketing, personnel recruitment and training, project management, and profit & loss responsibility. His primary focus has been on new and emerging markets.

Tom opened and staffed Atlanta offices for two firms and procured multimillion-dollar projects, including contract review and negotiation of terms and conditions. He purchased and has run operations involving multimillion-dollar thermal treatment systems. In addition is a specialist in Superfund and UST thermal treatment services.

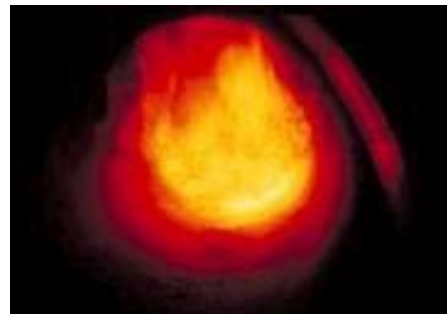
Tom's credentials include a Masters degree in Industrial Management from Georgia Tech and Bachelors and Masters degrees in Chemical Engineering from Manhattan College. He is a registered engineer in Georgia and several other states and is OSHA 1910.120 HAZWOPER certified.

Holder of US patent No. 4,601,730, Tom has contributed to Perry's Chemical Engineers' Handbook, 7th ed., 1997, and the McGraw Hill Standard Handbook of Hazardous Waste Treatment and Disposal, 2nd ed., 1997. He was the primary author of NOx Control for Stationary Sources, AWMA, 1995 and a co-author of The Industrial Wood Energy Handbook, Van Nostrand, 1984. He has authored numerous papers and journal and magazine articles on energy, pollution control, waste treatment, thermal processes and solids handling.

TMTS Associates

- Chemical Engineer, 25 yr exp., thermal, APC, solid handling
- Chemical Engineer, 30 yr exp., environmental engineering
- Chemical Engineer, 50 yr exp., thermal, APC, incineration
- Mechanical Engineer, 35 yr exp., HVAC/building mechanical & specs
- Mechanical Engineer, 40 yr exp., combustion and APC
- Mechanical Engineer, 25 yr exp., IV and industrial design
- Chemist, 40 yr exp., hazardous waste and project management
- Chemist, 25 yr exp., inorganic testing and stabilization of metals
- Environmental Scientist, 25 yr exp., hazardous waste, safety and health
- Computer Tech, 3 yr exp., CAD, graphics and imaging, Internet
- Technical Editor, 20 yr exp., multi-platform software and page layout
- Mechanical Engineer, 50 yr exp., thermal, burners, incineration, APC

Image Gallery



SHORT COURSES OFFERED BY TMTS ASSOCIATES

- Thermal Systems, Combustion and Air Pollution Control

The course is focused on combustion and air pollution control systems and the interactions between the two. It is paced to inform varying levels of engineers, scientists and operating personal of developments in the field. The practical experience of the instructors allows presentation of myriad applications spanning many industries. The goal of the course is to promote safe and economical operation while meeting regulatory requirements.

This course offers a complete understanding of combustion theory and provides practical knowledge of combustion systems and control devices and strategies for limiting air pollutants. Attendees will also learn the basics of boilers, gas turbines, thermal oxidizers, incinerators, dryers/desorbers and other thermal systems for burning conventional gas, liquid, and solid fuels, as well as waste-process vent gases containing VOCs, and liquid, solid, hazardous, and non-hazardous wastes. Thermal treatment systems for wastes, such as thermal desorbers and retorts, are also covered. Existing and new regulations are reviewed.

Control of multipollutants (PM, SO_x, NO_x, Hg, dioxins) from utility coal boilers and gas turbines are specifically reviewed, as well as for wide range of industrial combustion based sources.

- NO_x Control for Stationary Sources

The course is focused on control of NO_x for industrial heating equipment, including boilers, kilns, fired heaters, furnaces and thermal oxidizers. Both economical "Front End" changes in combustion equipment and more expensive "End of Pipe" post-combustion controls are covered. Regulations are also reviewed which affect allowable NO_x levels. The knowledge gained in the course will allow attendees to comply with myriad regulations and promote safe and economical operation. Part of the value of this course is the practical experience of the presenters and their knowledge of what works best for a particular application. Case studies are used for illustration purposes and slides of actual industrial equipment are utilized.

- Solids Handling and Feed Preparation

The course is focused on flow of bulk solids into and out of thermal equipment such as low dryers, low temperature thermal desorption systems, incinerators and air pollution control systems and use of bulk solids in stabilization of waste and soil with lime and cement blends. The knowledge gained in the course will allow attendees to procure bulks solids handling systems, avoid mistakes in specification and operation and trouble shoot operating problems. Part of the value of this course is the practical experience of the presenter and his knowledge of what works best for a particular application. Case studies are used for illustration purposes and slides of actual industrial equipment are utilized