



**Paul R. Little, QSTI**  
*Director of Customer Service*  
[plittle@airhygiene.com](mailto:plittle@airhygiene.com)  
918-994-4158 direct  
918-289-6378 cell

**J. J. Cavender**  
*Director of Business Development*  
[jcavender@airhygiene.com](mailto:jcavender@airhygiene.com)  
918-994-4159 direct  
918-289-9924 cell

# INTRODUCTION TO AIR HYGIENE STACK TESTING

# INTRODUCTION TO AIR HYGIENE



© copyright 2012

## Table of Contents

	Slide
• EMISSION STATEMENT _____	1 ●
• TRAINING _____	2 ●
• SUPPORT _____	3 ●
• TECHNOLOGY _____	4 ●
• FIELD WORK _____	5 ●
• SCHEDULING _____	6 ●
• EXPERIENCE _____	7 ●
• VERSATILITY _____	8 ●
• REGULATORY _____	9 ●
• BEHIND THE SCENES _____	10 ●
• EQUIPMENT _____	11 ●
• SOURCES _____	12 ●
• ACCREDITATION _____	13 ●
• CAPABILITIES _____	14 ●

# E'MISSION STATEMENT

Strategically located in the heartland of the United States, Air Hygiene's corporate headquarters in Broken Arrow, Oklahoma is a 32,000 square foot building which houses both cutting edge equipment and employees who are leaders in their specialties.

Air Hygiene's core philosophy of "Second-to-None (2-2-0)", demands extra mile customer service anchored on dignified character and family-oriented principles to deliver unmatched quality stack testing, worth paying for every time.

Supporting this mission we utilize revolutionary technology and Air Hygiene University to create the best educated work force to define the future of stack testing.

## CORPORATE OFFICE



# TRAINING

Air Hygiene's culture extends to our warehouse through the practices of **Kaizen** and **Continuous Improvement**.

Here we employ the concepts of Lean and 5S to create an organized and safe environment that focuses on error reduction.

Air Hygiene employees benefit from a one-of-a-kind training environment that includes an **in-house stack**. By utilizing our dedicated training balcony to introduce employees to new concepts, then combining that theory with actual hands-on, real-world training and repetition; mistakes are discovered and corrected before employees have a chance to make them in the field. The result is cost savings, which are passed on directly to our customers.

## WAREHOUSE



# SUPPORT

Under the watchful eye of our company President, Quinn Bierman, the [\*\*Instrument Room\*\*](#) is the hub of maintaining our most technically advanced real-time analyzers. From Fourier Transform Infrared (FTIR) Analyzers to field Gas Chromatographs (GCs), everything is routinely serviced and tested prior to mobilization.

## INSTRUMENT ROOM



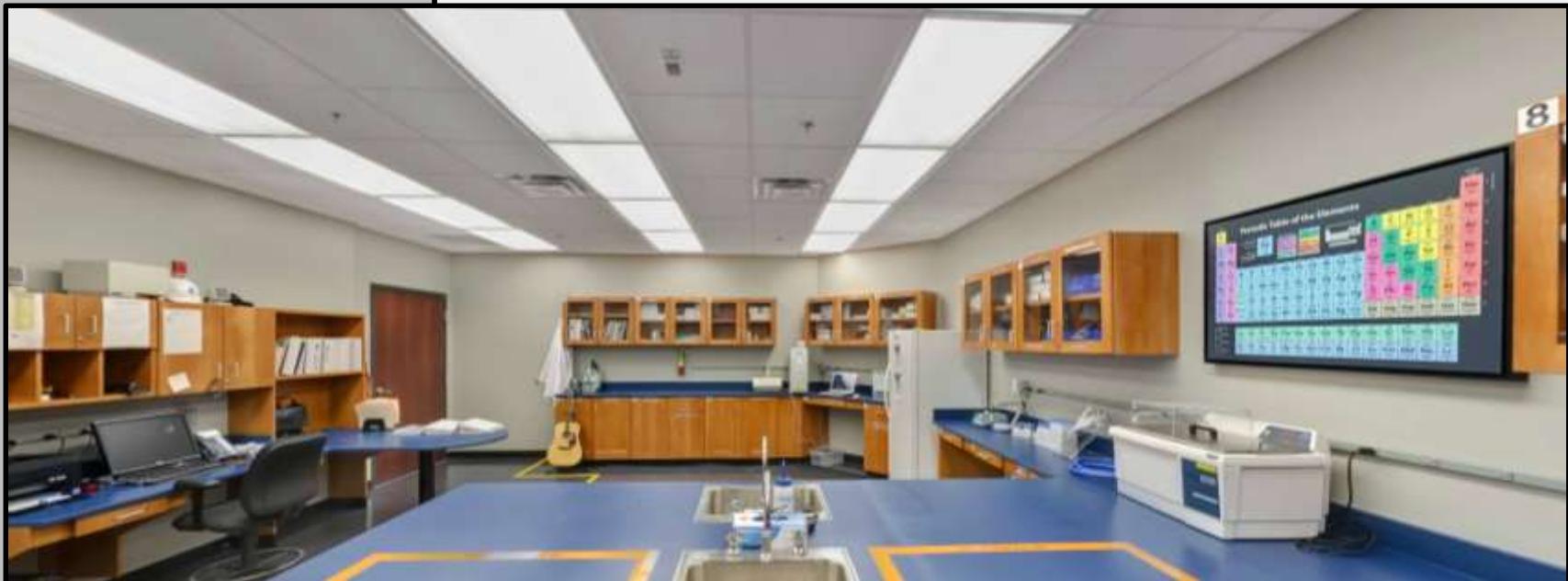
Air Hygiene's management provides support to our field crews through constant phone and internet contact. Air Hygiene's technical staff provides support to our field crews by maintaining a fleet of [\*\*backup equipment\*\*](#) to eliminate downtime on the job. The result is flawless testing that is performed [\*\*on budget and on time\*\*](#).



# TECHNOLOGY

Air Hygiene's quality program begins in the lab, which is operated by Sean Barnes, PhD chemist and managed by Jake Fahlenkamp, Air Hygiene's Executive Director of Quality Management.

## LABORATORY



Air Hygiene's owners have a long standing practice of investing company profits back into employees and test equipment. The Warehouse, Instrument Room, and Laboratory all contain technically superior, state-of-the art equipment that is operated and maintained by the best qualified staff in the industry.





At Air Hygiene it is important not just to know the E'mission Statement, but also to practice it on a daily basis. Our business is our clients' satisfaction, which we support by guaranteeing our service is...

## Second-to-None (2-2-0)

### TEST TRAILERS



# FIELD WORK

All of the training, support, and technology culminates at your site. Air Hygiene's field crews are equipped with the best equipment available. Project managers are **leaders** trained technically as well as with the management side of crew delegation and customer support. All of this "extra" effort is in place to support 2-2-0 customer service.

# SCHEDULING

Air Hygiene's Director of Operations, [Danny Parr](#) is always just a phone call or email away from being able to answer your questions about [scheduling](#).

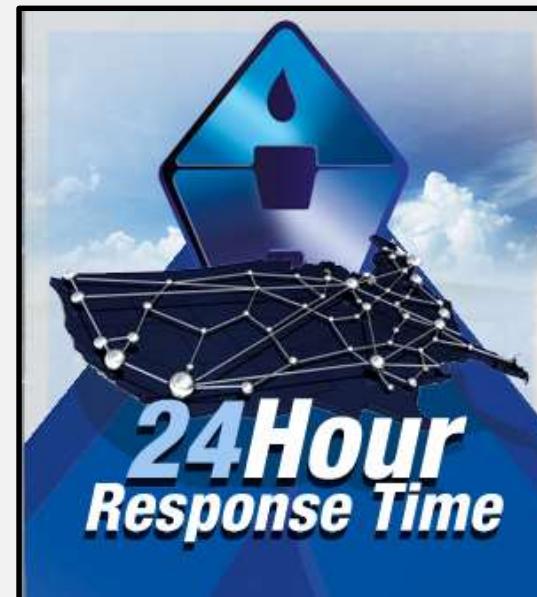
Holding certifications for QSTI I, II, III, and IV, Danny has made himself an integral member of the Air Hygiene family. His expertise includes: compliance startup projects, engine compliance tests, and relative accuracy test audits. After having completed over 3,000 emissions tests, Danny provides excellent oversight and direction for Air Hygiene clientele.



Scheduling source emission testing can be challenging.  
[We guarantee 24 hour response time.](#)

To assist our clients, Air Hygiene maintains additional field offices with ready for field use testing labs and/or personnel in the following cities:

- Shreveport, LA
- Fort Worth, TX
- Austin, TX
- Chicago, IL
- Pittsburgh, PA
- Las Vegas, NV



# EXPERIENCE

Air Hygiene has worked for a variety of companies, many just like yours and we have a long list of satisfied customers.

## CLIENT REFERENCES



We pride ourselves on our ability to maintain strong client relationships.

We are always looking to add new companies to our customer base and would enjoy the opportunity to work for you.

Your first contact at Air Hygiene may likely be our Director of Business Development, JJ Cavender. Whether you meet him at a trade show, information forum, or through a request for quote need, JJ can help to get your work quoted.



Director of Business Development  
JJ Cavender

# VERSATILITY

In the spirit of Continuous Improvement our Director of **Customer Service**, Paul Little, and his staff reach out to each and every customer to ensure our job performance is great.

This effort is to ensure we exceed our client's expectations and continually raise the bar on best field practices and setting best work standards.



Air Hygiene works hard to meet client needs through **versatility**, **flexibility**, and **mobility**. Using our fleet of vehicles and test trailers; collection of real-time analyzers and wet chemistry test equipment; and host of experienced and well trained field crews, Air Hygiene makes a commitment to be there when you need us each and every time.



# REGULATORY

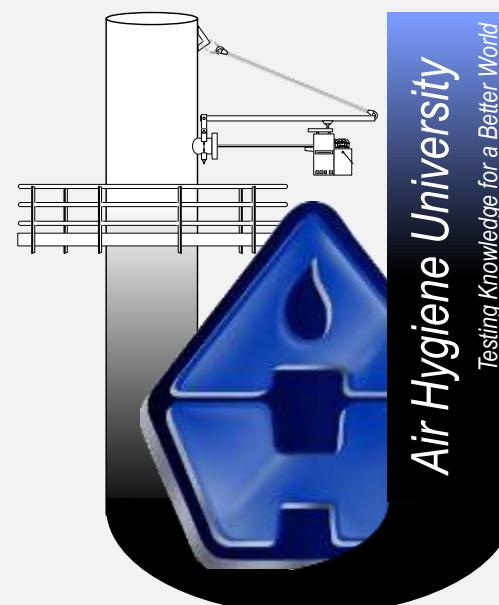
Regulatory changes and their impact on our clients is critical.

Air Hygiene University is the vehicle and mechanism that Air Hygiene utilizes to keep both clients and personnel current on the potential gaps that exist between regulatory language and actual hands-on application of newly developing equipment.

We then bring information back to our employees to educate them about changes in our testing environment.

Air Hygiene University is the vehicle and mechanism that Air Hygiene utilizes to keep both clients and personnel current on the potential gaps that exist between regulatory language and actual hands-on application of newly developing equipment.

Under the direction of Thomas Graham, AHU is focused on becoming a world wide presence in stack testing training.



# BEHIND THE SCENES



Air Hygiene's [\*\*Chief Financial Officer, Clint Davis\*\*](#) maintains the cash flow that is critical to a mid-sized business that allows us to always own the best testing equipment, employ the best staff, and continue to grow our business. Each of these things contributes to ultimate client satisfaction.



CFO - Clint Davis

No company can operate, and field testing would be impossible, without [\*\*strong leadership\*\*](#) engaged in actively monitoring and evaluating the pulse of Air Hygiene's staff, financial outlook, and test equipment. Each Director of each division looks to track key performance metrics and tie that performance back to the short and long term goals of our company and our clients.

Air Hygiene [\*\*Vice President, Swanson Bierman\*\*](#), champions our Kaizen improvement activities and also, along with his staff, maintains the warehouse, ready to stage and mobilize equipment at a moments notice.



Vice-President - R. Swanson Bierman



**Testing Solutions  
for a Better World**

# EQUIPMENT



Craig McCarty, Director of Test Equipment, personally oversees that each piece of [field equipment](#) is properly [cleaned](#), [calibrated](#), and [serviced](#) between each project.



*Director of Test Equipment - Craig McCarty*

David Martin, Director of Construction, and his staff [custom build each Air Hygiene test trailer](#) to state-of-the art specifications



*Director of Construction - David Martin*

Great stack testing companies are not just built on the backs of their employees, but also live and die by the [quality](#) of their [sampling equipment](#).

## With equipment that includes:

- Reference method real-time gas analyzers
- Isokinetic/wet chemistry sampling trains
- Flow, temperature, and pressure measurement
- On-site chemical analysis

Air Hygiene is the clear choice for all stack testing needs.



# SOURCES

- Coal
- Natural Gas
- Fuel Oil
- Biomass

From natural gas fired power plants in the early 2000s to the massive clean coal plant startups of the last 8 years, Air Hygiene has made its mark on the industry by standing out as a leader in the field of tuning, performance, and initial startup compliance testing.

These jobs require flexibility along with creative scheduling and planning. We have a staff of seasoned professionals ready to be at your site to get your plant online and emissions tested within your budget and meeting your deadlines.



Las Vegas Cogen



NYC Power Plant

# ACCREDITATION

The USEPA requires board certification for specific regulations under 40 CFR Part 75 and has referenced ASTM D7036 as the primary standard for Air Emission Testing Bodies (Stack Testers) and individual accreditation through the QSTI (Qualified Stack Testing Individual) program. These regulations require Air Hygiene to maintain both a company wide accreditation along with individual certifications for our employees. **We make sure you get the very best!**

- Air Hygiene maintains a staff of professionals each with multiple QI certifications to their names. The company is proud to hold **48 individual QI certifications** among its respective field managers.
- Air Hygiene was very first company to achieve the combined three level stack testing accreditations audited by A2LA. These included ASTM D7036, International Standard ISO/IEC 17025:2005, and ilac-MRA.





A sample of our reference method tests include:

- Methods 1-4: Flow / Moisture
- Method 3a: O<sub>2</sub> and CO<sub>2</sub>
- Method 5: PM
- Method 6c: SO<sub>2</sub>
- Method 7e & 20: NOx
- Method 8, 8a, and CTM-013: H<sub>2</sub>SO<sub>4</sub> and SO<sub>3</sub>
- Method 9 and 22: Opacity
- Method 10: CO
- Method 11: H<sub>2</sub>S
- Method 12: Lead
- Methods 13: Total Fluoride
- Method 15: Reduced Sulfur
- Method 16: TRS
- Method 17: PM
- Method 18: VOC
- Method 19: F-Factor
- Method 23: Dioxins and Furans
- Method 25a: THC
- Method 26 and 26a: Hydrogen Halides and Halogens
- Method 29: Metals
- Method 30b: Hg
- Method 201a: PM<sub>10/2.5</sub>
- Method 202: Condensable PM
- Method 306: Total Chromium
- Method 308: Methanol
- Method 316: Formaldehyde
- Method 320: FTIR
- Method 321: HCl
- ASTM D6348: FTIR
- ASTM D6522: Portable Analyzer
- ASTM D6784: Speciated Hg

# CAPABILITIES

From power utilities to oil and gas companies; from instrumental methods to wet chemistry testing, Air Hygiene is capable of getting your scope of work accomplished correctly, accurately, on time, and within your budget every time. Our Service is what you will remember!

We make a point of living our mission each and every day, which results in a long list of clients that come back to us for all of their source testing needs.

Air Hygiene also continues to perform stack emissions testing for the following industries as well:

- Asphalt
- Pulp & Paper
- Glass Plants
- Chrome Electroplating
- Metal & Non-metallic Mineral Processing
- Printers
- Chemical Plants
- Cement Kilns
- Solid and Hazardous Waste Incinerators
- Manufacturers



If you would like a better view of our facility, please take a look at our 360° spins at:

[http://newspin360.com/tour/ok/  
brokenarrow/airhygiene/](http://newspin360.com/tour/ok/brokenarrow/airhygiene/)

# QUESTIONS?

**Paul R. Little, QSTI**

*Director of Customer Service*

[plittle@airhygiene.com](mailto:plittle@airhygiene.com)

918-994-4158 direct

918-289-6378 cell

**Quinn A. Bierman, QSTI**

*President*

[quinn@airhygiene.com](mailto:quinn@airhygiene.com)

918-994-4176 direct

918-407-5164 cell



**Air Hygiene International, Inc.**

1600 W. Tacoma Street

Broken Arrow, Oklahoma 74012

918-307-8865 office

918-307-9131 fax

[www.airhygiene.com](http://www.airhygiene.com)



# AIR HYGIENE, INC.



*Testing Solutions for a Better World*

