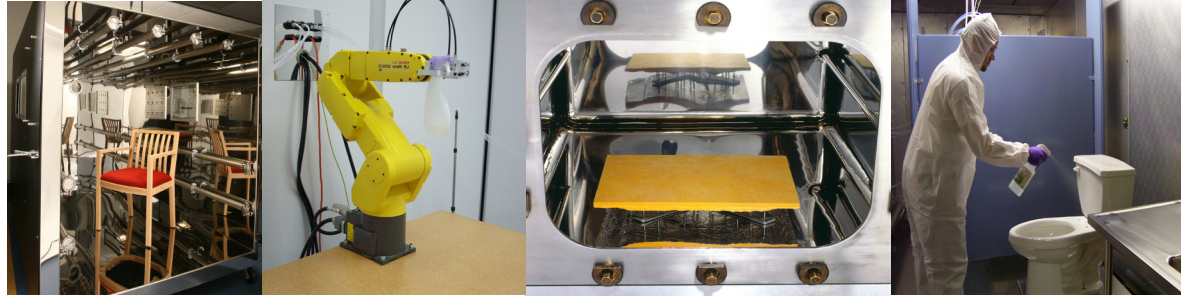




# Basic Chamber Emissions Test

Air Quality Sciences (AQS), an ISO 9001 Registered and ISO 17025 Accredited firm, offers best-in-class indoor air quality (IAQ) support by providing credible and accurate data, prompt turnaround and superior customer service. At AQS, the customer is our first priority. If you have not used our services previously, please call our Customer Service Department at 770-933-0638 to learn more about our qualifications and offerings. Visit our web site at [www.aqs.com](http://www.aqs.com), and visit the Aerias IAQ Resource Center ([www.aerias.org](http://www.aerias.org)) to learn more about the importance of indoor air quality and minimizing indoor pollutants.



## The situation

As sustainable building practices gain momentum and consumers have increased awareness, there is more demand for products that support good indoor air quality. Construction materials, furnishings and maintenance products used to build, decorate or clean buildings release volatile organic compounds (VOCs) into the indoor air. Air Quality Sciences (AQS) assists construction managers, building owners, architects, designers, specifiers, consultants and manufacturers in qualifying products as non-toxic, low odor and low emitting.

AQS can test any product to a variety of recommended standards including those set by the GREENGUARD Indoor Air Quality Certification™ programs, CHPS, California Section 01350 and LEED, to name a few. Products can also be tested to determine if they are the source of certain VOCs in the air or building odors. They can also be evaluated to ensure that they are not contributing unwanted chemicals into the air, including irritants, carcinogens and reproductive toxins.

## The process

Products are tested using dynamic chamber technology, following ASTM D 5116 and D 6670 standards that allow for testing of emissions of a product in a controlled environment. Emission profiles identify

the pattern and level of emissions over time for target analytes, and assist in predicting expected exposure levels. Products are tested and reports are customized depending on the requirements. All testing follows ASTM, GREENGUARD, California and ISO standards requirements for environmental chamber measurements.

## Why test?

The following are just a few examples of how qualification testing can help consultants, building owners and construction/design professionals:

- For consultants seeking sources of unwanted VOCs or odors in buildings
- For consultants evaluating the exposure safety of materials and furnishings
- For architects and specifiers that would like to select building materials that contribute minimally to indoor air pollution
- For managers of green building projects that would like to verify the status of low-emitting products
- For manufacturers complying with third-party certification and government requirements

## What are the benefits?

- Access growing green markets that are demanding low emitting products
- Qualify products for use in green building projects that are seeking LEED certification

- Select products that support good indoor air quality
- Resolve indoor air quality complaints in buildings

## What information will I receive?

The general product screening test for product emissions is based on a 24-hour measurement point. All measured VOCs and aldehydes will be reported along with expected air exposure concentrations based on a simple exposure model. Additional services are available including identification of potential odorants, chemicals on certain regulatory lists, emission profiles over time and comparison to certification requirements.

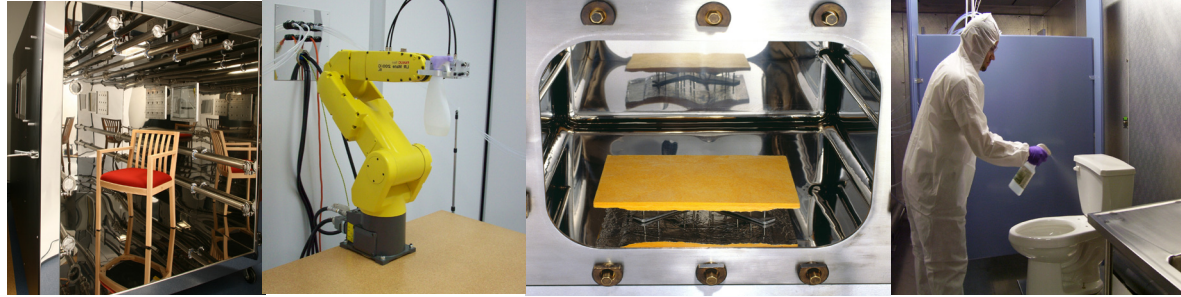
## How do I order a test?

To order testing and to find out more about how our services can help you, call AQS at 770-933-0638 and ask for Product Evaluations.

The dedicated customer service staff at AQS will make sure we obtain data appropriate to your needs. One of the key advantages of working with AQS is our approach to helping manufacturers understand their test results and how to use the data.

# Specialized Product Testing

Air Quality Sciences (AQS), an ISO 9001 Registered and ISO 17025 Accredited firm, offers the highest quality indoor air quality (IAQ) support by providing credible and accurate data, prompt turnaround and superior customer service. At AQS, the customer is our first priority. If you have not used our services previously, please call our Customer Service Department at 770-933-0638 to learn more about our qualifications and offerings. Visit our web site at [www.aqs.com](http://www.aqs.com), and visit the Aerias IAQ Resource Center ([www.aerias.org](http://www.aerias.org)) to learn more about the importance of indoor air quality and minimizing indoor pollutants.



## The situation

Air Quality Sciences has more than 20 years of experience testing thousands of products for emissions. Regardless of the product or process, chances are AQS has or can successfully develop a testing protocol that effectively determines pollutant emissions and measures inhalation exposure levels. We have assisted attorneys; manufacturers; construction professionals; research and development managers; directors of operations; and many other professionals study complex and very unique product usage scenarios using dynamic environmental chamber technology.

The following are just a few examples of clients who have leveraged our specialized testing:

- A consumer product company that wanted to measure the effectiveness of an “odor reducing” treatment for textiles
- NASA, who wanted to measure inhalation exposure to certain chemicals during space shuttle tile treatment
- A fragrance research organization that wanted to measure emission releases of volatile odorants from air fresheners
- A computer company that wanted to identify the source and cause of an unacceptable odor during operation

## The benefits

- Acquire accurate, realistic and defensive exposure data related to use of product
- Save time and money by accessing experienced professionals that can quickly resolve nearly any indoor air quality problem
- Establish competitive advantage over alternative products and brands by offering products with superior performance for indoor environments

## How is the testing conducted?

Once the objectives of the client are known, AQS develops a testing and data evaluation protocol to achieve the desired information. Exposure studies are conducted in either small or large dynamic chambers with accurate analytical measurements. Following the testing and analysis, reports are sent to the manufacturer. Testing follows ASTM, California and ISO standard requirements for environmental chamber measurements.

## What data will I receive?

AQS will provide a full report detailing objectives, test methodologies, calculations and results. Additional items may include photographs, statistical analyses or comparison of data to standards and guidelines. The report can be customized to meet your requirements.

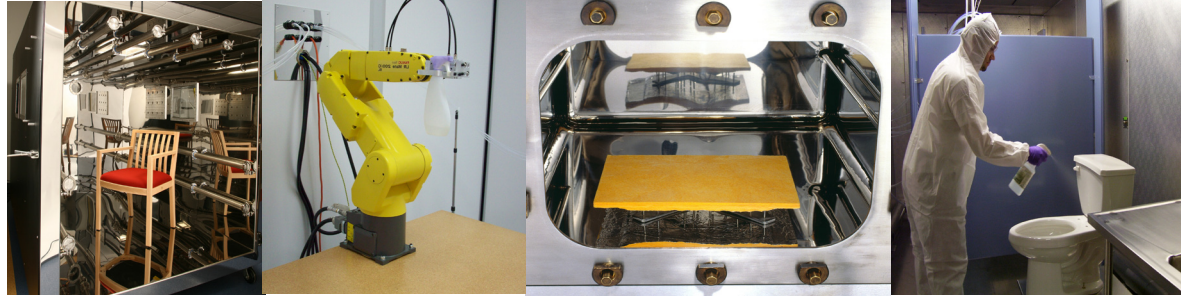
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# Regulatory/Risk Assessment

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## What is it?

An indoor air quality (IAQ) risk assessment evaluates a product's potential to produce adverse human health effects and sensory perception effects, characterized by irritation and odor. Emissions data obtained from an environmental chamber evaluation are used to predict indoor concentration levels of volatile organic compounds (VOCs), aldehydes, particles, ozone and other potential pollutants for a given use. An assessment of emitted contaminants will be made for:

- California Proposition 65 regulatory compliance for carcinogens and reproductive toxins
- Permissible occupational exposure limits (often referred to as PELs, TVLs, MAKs)
- Occupational Safety and Health Administration's (OSHA) Hazard Communication Requirement for formaldehyde
- Government and agency guidelines for cancer and non-cancer risks (IARC, NTP, USEPA, CAL CRELS, ARELS, TVOC)
- Acceptable odor and irritation thresholds
- Guidelines for non-occupational IAQ exposures (WHO, USEPA, Blue Angel)

## Why do manufacturers test?

There are many reasons manufacturers should test products for chemical emissions. Manufactures can:

- Know what chemicals and concentrations are emitted from products, despite no standard chemical emissions regulations existing for indoor products

- Quantify potential health risks associated with a product's emissions
- Alert manufacturers to potential issues prior to introduction in the marketplace
- Provide third-party data that may be helpful in case of litigation or if pursuing product certification
- Provide information on labeling for California's Proposition 65 and OSHA's formaldehyde rule
- Identify likely human response to indoor air quality acceptability
- Prevent the presence of toxic, odorous, and irritating chemical emissions Properly label products with usage instructions and warnings
- Manage supply chain to limit hazardous emissions

## How is the testing conducted?

Product testing is completed in dynamic environmental chambers with temperature, humidity and air flow controls. Chamber testing is designed to simulate a controlled, yet realistic indoor environment and to permit accurate and precise measurements of low level chemical contaminants emitting from products. Supply air to the chamber is stripped of VOCs, particles, and other contaminants, so that backgrounds present in the empty chamber are below strict limits. Product use assumptions are provided by the manufacturer. These concentrations are reviewed using our extensive toxicology databases.

## What data will I receive?

AQS offers a basic screening assessment to report and interpret the data and evaluate a product's potential impact on indoor air quality. A complete product emissions report will include identification of all emitting VOCs (including formaldehyde and other aldehydes, phthalates, respirable particles and other applicable contaminants) in emission rates and predicted exposure concentrations. Identification and discussion of all potential health risks are also included. The report will detail the test protocol, measurement methods, product application processes, data assessment procedure and quality procedures. Data analysis procedures will be detailed along final exposure concentrations and comparison to applicable standards and guidelines. Emissions data are mathematically modeled to determine inhalation exposure concentrations, which are reviewed using our extensive health databases.

## How do I order a test?

To order testing and to find out more about how our services can help you, call Air Quality Sciences at 770-933-0638 and ask for Product Evaluations.

The dedicated customer service staff at Air Quality Sciences will make sure we obtain data appropriate to your needs. One of the key advantages of working with AQS is our approach to helping manufacturers understand their test results and how to use the data.

## Measuring VOCs for IAQ Studies

Air Quality Sciences (AQS), an ISO 9001 Registered and ISO 17025 Accredited firm, offers best-in-class indoor air quality (IAQ) support by providing credible and accurate data, prompt turnaround and superior customer service. At AQS, the customer is our first priority. If you have not used our services previously, please call our Customer Service Department at 770-933-0638 to learn more about our qualifications and offerings. Visit our web site at [www.aqs.com](http://www.aqs.com), and visit the Aerias IAQ Resource Center ([www.aerias.org](http://www.aerias.org)) to learn more about the importance of indoor air quality and minimizing indoor pollutants.



### What are the issues?

Volatile organic compounds (VOCs) originate from building materials, furnishings, office equipment, cleaning products and systems, personal care products, occupant activities, and outdoor air. While low levels of many VOCs are typical in indoor environments, elevated levels and the presence of unusual VOCs can lead to health complaints, including headaches and eye and upper respiratory irritation. High levels can lead to more severe effects such as dizziness, fatigue, and asthma attacks. Certain VOCs may produce unacceptable odors, even at very low concentrations. Many green, sustainability programs such as LEED, NAHB and FEMA include stipulations regarding acceptable levels of certain VOCs. It is important to identify all VOCs because many are known carcinogens and developmental toxins.

### How is the air sampled and analyzed?

Air samples are collected dynamically using specialized, multisorbent tubes prepared and purified at the AQS laboratory and sent to you on demand. For dynamic air collections, the recommended sample collection volume is 0.2 liters per minute (L/min) for 90 minutes for a total air collection of 18 liters (L). Once sampled, the tubes are sealed and sent back to the laboratory for GC/mass spectrometry analysis. All testing adheres to standard ASTM and EPA methods.

### What VOCs are collected and analyzed?

The multisorbent tube collects most all VOCs ranging from C<sub>4</sub> to C<sub>16</sub>, with the collection of many polar and non-polar VOCs. A typical air sample collected in an occupied building will have 50 to 1000 different VOCs. The number and levels of VOCs depend on many building specific factors sources, including age of the building, ventilation rates and activities. Common VOCs observed in building air are toluene, styrene, ethanol, limonene, 2-butoxy-ethanol and 2-propanol. AQS reports TVOC, which is the sum of all measured VOCs, and identifies all individual VOCs.

### What are the detection limits?

TVOC and most individual VOCs have a lower limit of detection: approximately 0.5 µg/m<sup>3</sup> (micrograms per cubic meter), which is less than 0.1 ppb (parts-per billion) for most indoor VOCs. These detection limits are magnitudes lower than those available from traditional, occupational measurement methods for VOCs and solvents. These low detection limits are key to resolving IAQ odor irritation complaints and assessing long-term health risks.

### Are there acceptable limits?

There are no regulated levels of VOCs for indoor environments; however, there are numerous governmental and health related guidelines and recommendations. Most new

construction and commissioning projects require that TVOC levels be less than 200 – 500 µg/m<sup>3</sup> prior to building occupancy. Individual VOCs, which are known irritants, odorants, carcinogens or reproductive toxicants, must be less than maximum allowable levels as established by risk evaluations from public health authorities.

### Services offered by AQS

- Analysis of TVOC and all individual VOCs (not just a target list)
- Identification of odorants and irritants
- Identification of carcinogens/regulated VOCs
- LEED analysis
- Purified sampling media
- Calibrated pumps and sampling materials
- 5-day turnaround time

### How do I order a test?

To order testing and to find out more about how our laboratories can help you, call AQS at 770-933-0638 and ask for Laboratory Services. The sampling materials are shipped to you overnight along with easy-to-understand instructions. Once the sample is returned to our ISO 17025 accredited laboratory, it is promptly analyzed, and a report is sent back to you.

# Odor Assessment Testing for Products

Air Quality Sciences (AQS), an ISO 9001 Registered and ISO 17025 Accredited firm, offers the highest quality indoor air quality (IAQ) support by providing credible and accurate data, prompt turnaround and superior customer service. At AQS, the customer is our first priority. If you have not used our services previously, please call our Customer Service Department at 770-933-0638 to learn more about our qualifications and offerings. Visit our web site at [www.aqs.com](http://www.aqs.com), and visit the Aerias IAQ Resource Center ([www.aerias.org](http://www.aerias.org)) to learn more about the importance of indoor air quality and minimizing indoor pollutants.



## The situation

Offensive odors from materials and manufactured products can lead customers or users to consider a product unpleasant or unhealthy. To maintain product excellence and gain acceptability, manufacturers of products and building managers need assurance that products do not release objectionable, irritating or potentially hazardous odors into an indoor environment. Air Quality Sciences (AQS) odor assessments help manufacturers determine the acceptability of their products for indoor environments. Building owners and managers can evaluate the source of unpleasant odors and rapidly assure occupants of their safety and take corrective action. AQS has the most extensive database available, based on more than 20 years of experience matching odors with chemicals and sources. Our results-oriented approach is designed to resolve problems at the source, providing a long-term solution rather than a temporary fix.

## What are the advantages?

- Identify and eliminate sources of odors in products and buildings in the most expedient, cost-effective manner
- Save money and time by reducing customer complaints and product replacements
- Prevent occupant complaints and building evacuations by addressing odor problems before products are installed in buildings
- Gain customer and user confidence in product selection

## How is it used?

Air Quality Sciences' odor assessments are useful in many different scenarios.

- When manufacturers or building managers receive customer/occupant complaints about offensive product odors and want to quickly and effectively identify and resolve the problem
- For construction professionals who want odor assessments on key building materials to ensure that they will not cause offensive odors in a building
- During product development, sources of irritating or offensive odors are identified so that manufacturers can correct problems before taking products to market.
- Manufacturers can screen their raw materials and component suppliers for odor acceptability

## How is the testing conducted?

Odors are characterized and the VOCs responsible for the odors are identified. Products are tested in environmental chambers where human characterization of the odor and chemical measurements of all emitting VOCs are made. Products are exposed in dynamic environmental chambers. A human odor panel evaluates the quality (description and intensity of the odor following ASTM guidelines for sensory evaluations, and DS-61, Atlas of Odor Characteristic Profiles, Andrew Dravnieks, 1985), and the air within

the chamber is measured for all emitting VOCs. Odor characteristics and chemical data are reviewed across our extensive odor database of sensory perceptions and specific chemical odor thresholds.

## What information will I receive?

A report that presents the odor characterization of the product both in intensity (how strong) and quality (ranging from "pleasant" to "unpleasant"). Odor characteristics will also be presented as to what the panel described while evaluating it. All emitting VOCs will be identified and measured in air levels. These chemicals will be cross referenced in Air Quality Sciences extensive data base of odor descriptors, odor thresholds and odor perception ratings. VOCs that are likely sources of the odor will be reported.

## How do I order a test?

To order testing and to find out more about how our services can help you, call Air Quality Sciences at 770-933-0638 and ask for Product Evaluations.

The dedicated customer service staff at Air Quality Sciences will make sure we obtain data appropriate to your needs. One of the key advantages of working with AQS is our approach to helping manufacturers understand their test results and how to use the data.



# PRESS RELEASE

## FOR IMMEDIATE RELEASE

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## **UL Environment Expands Portfolio with Addition of GREENGUARD Certification Program<sup>SM</sup>**

*UL Environment acquires indoor air quality market leaders Air Quality Sciences, Inc. and its certifying body GREENGUARD Environmental Institute*

**NORTHBROOK, Ill., Feb. 2, 2011** – UL Environment, a business unit of UL (Underwriters Laboratories), an independent product safety certification organization, announced today that it has reached an agreement with Air Quality Sciences, Inc. (AQS) to acquire AQS and its certifying body, the GREENGUARD Environmental Institute. AQS and GREENGUARD are the market leaders in North America for product emissions testing and third-party indoor air quality certification.

AQS helps manufacturers identify the chemicals being emitted from their products using state-of-the-art equipment and testing laboratories. GREENGUARD Certification helps manufacturers communicate their sustainability message to the marketplace by providing assurance that their products have been independently evaluated for low chemical emissions. The internationally recognized GREENGUARD Certification mark and the GREENGUARD Product Guide are indispensable tools that help manufacturers showcase their products' optimal indoor air quality performance.

"This acquisition combines AQS's world-class technology and expertise, as well as GREENGUARD's brand recognition and scientific rigor, with UL's trusted history of standards development, testing, and compliance to create a more comprehensive solution for testing and certification," said Steve Wenc,

president of UL Environment. “Together, we’ll help consumers, regulators, and other interested parties make informed product purchases by providing clarity around indoor air quality claims.”

UL entered the environmental space in 2009 with the launch of its environmental services business unit, UL Environment. The organization helps establish new definitions of safety beyond the borders of traditional safety testing and certifications, aiding manufacturers in differentiating environmentally-superior products in the marketplace. Expanding on UL Environment’s product emissions testing and indoor air quality certification capabilities, the acquisition further positions UL Environment as a global leader in environmental evaluation and certification.

AQS is headquartered in Atlanta, Georgia. Since its establishment in 1989, the company trailblazed the indoor air quality testing market—investing in, developing, and perfecting the most sophisticated dynamic environmental chamber technology in the world. This has enabled AQS to test more than 70,000 products for chemical emissions and catalogue the presence of more than 12,000 product specific chemicals that can pollute the indoor air.

Founded in 2001, the GREENGUARD Environmental Institute certifies building products and materials for low chemical emissions. GREENGUARD Indoor Air Quality Certification and GREENGUARD Children & Schools Certification are the most trusted third-party indoor air quality certifications in North America. More than 350 manufacturers worldwide currently participate in the GREENGUARD Certification Program, representing 19 unique industries and over 10,000 products.

“By joining forces with such a recognized and reputable brand as UL, we are confident that we will boost consumer confidence in the green product marketplace,” said Dr. Marilyn Black, founder of the GREENGUARD Environmental Institute and chairperson at AQS. “Additionally, this strategic partnership will allow us to enhance our position as the North American indoor air quality market leader and help us expand our reach into the global market.”

Combined, GREENGUARD and AQS leadership has more than 120 years of experience in chemistry, chemical and mechanical engineering, microbiology, public health, and industrial hygiene. Both AQS and GREENGUARD will help bring greater value to UL’s existing customers and extend UL’s reach to a broader range of companies that seek to minimize their environmental impact.

###

### **About UL Environment**

UL Environment supports the growth and development of sustainable products, services and

organizations in the global marketplace through standards development, educational services and independent third-party assessment and certification. Specific environmental solutions services UL Environment provides include environmental claims validation, sustainable products certification, energy efficiency certification, environmental product declarations and advisory services. Additional information about UL Environment can be found at [ulenvironment.com](http://ulenvironment.com). Or follow UL Environment news and education tips on Twitter @ulenvironment.

### **About UL**

UL is a premier global safety science company with more than 100 years of proven history. Employing more than 6,800 professionals in over 96 countries, UL is evolving the future of safety with five distinct business units – Product Safety, Environment, Life & Health, Verification and University – to meet the expanding needs of customers and the global public. For more information about UL University and Six Sigma programs and services, visit [www.ULUniversity.com](http://www.ULUniversity.com)

### **About Air Quality Sciences**

Air Quality Sciences, Inc. (AQS) is a fully integrated indoor air quality (IAQ) company that provides solutions to create healthy indoor environments and avoid potentially dangerous indoor pollution. With the largest ISO 17025 accredited environmental chamber laboratory in the world, AQS assists manufacturers in developing and verifying non toxic products through risk management and assessment processes. The company provides product testing and guidance in meeting various certification program requirements for GREENGUARD, German Blue Angel, AgBB, Green Guide for Healthcare, CHPS, LEED® EQ credits and other prominent IAQ and green product criteria requiring third party verification. To learn more about AQS, visit [www.aqs.com](http://www.aqs.com), and for more information on indoor air quality, visit Aerias the AQS IAQ Resource Center at [www.aerias.org](http://www.aerias.org).

### **About GREENGUARD**

The GREENGUARD Environmental Institute aims to protect human health and improve quality of life by enhancing indoor air quality and reducing people's exposure to chemicals and other pollutants. As an ISO-IEC Guide 65:1996 accredited, third-party organization, the GREENGUARD Environmental Institute certifies products and materials for low chemical emissions and provides a resource for choosing healthier products and materials for indoor environments. All certified products must meet stringent chemical emissions standards based on established criteria from key public health agencies. GREENGUARD Certification is broadly recognized and accepted by sustainable building programs and building codes worldwide. For more information and a complete listing of certified products, visit [www.greenguard.org](http://www.greenguard.org).



## News Release

### FOR IMMEDIATE RELEASE

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### **AQS, GREENGUARD to Host Interactive Forums on Critical IAQ Issues, Unveil New Scientific Findings at Indoor Air 2011**

*Diverse panel of experts to discuss health criteria of product emissions and the role of IAQ in green product labeling programs*

(Atlanta, Ga.)—Air Quality Sciences, Inc. (AQS), North America's leading product emissions testing laboratory and services provider, along with the GREENGUARD Environmental Institute (GEI), North America's preeminent third-party indoor air quality product certifier, will host two interactive panel discussions on critical IAQ issues at the 12<sup>th</sup> International Conference on Indoor Air Quality and Climate (Indoor Air 2011) June 5 through June 12 in Austin, Texas.

The educational forums, which will feature a diverse group of expert panelists in an open Q&A setting, will dissect and explore key issues facing the indoor air quality science community, including acute and chronic health criteria of various chemicals and the impact of product emissions in high-performance buildings. Both forums will take place Thursday, June 9. For a complete schedule, visit [www.aqs.com](http://www.aqs.com).

In addition to sponsoring the interactive forums, experts from both AQS and GEI will present a total of seven peer-reviewed papers at Indoor Air 2011—some of them unveiling never-before-released scientific findings based on data that have taken years to collect and analyze.

“This conference series has consistently provided a platform for the advancement of indoor air and climate sciences through the sharing of breakthrough scientific papers and forum-style workshops. As leaders in the IAQ community, it's only natural for AQS

and GEI to take such active roles in the conference and raise IAQ awareness,” says Dr. Marilyn Black, founder of GEI and president of AQS.

Hosted by the International Society of Indoor Air Quality and Climate (ISIAQ), of which Dr. Black is a founding member, Indoor Air 2011 provides an opportunity for researchers and practitioners to exchange ideas about the major challenges facing the indoor air and climate community. The triennial conference will highlight indoor air chemistry and health, the long-term effects of “green” building on indoor air quality and emerging contaminants, and other topics beyond the conventional scope of indoor air quality (IAQ) research.

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### **About Air Quality Sciences (AQS)**

Air Quality Sciences, Inc. (AQS), a member of the Underwriters Laboratories® Global Network, is a renowned indoor air quality testing and research laboratory. With the largest environmental chamber facility in the world, AQS conducts certification services for the GREENGUARD Environmental Institute and partners with key programs like the CRI IAQ Green Label Plus Testing Program, Green Seal, Ecologo, CHPS, and USGBC, in testing products for their volatile organic compounds and determining their impact on IAQ. AQS has tested over 70,000 products, including cleaning chemicals, and has a room sized chamber dedicated to testing the emissions and efficacy of cleaning processes. For more information, visit [www.aqs.com](http://www.aqs.com).

### **About the GREENGUARD Environmental Institute (GEI)**

The GREENGUARD Environmental Institute aims to protect human health and improve quality of life by enhancing indoor air quality and reducing people’s exposure to chemicals and other pollutants. As an ISO-IEC Guide 65:1996 accredited, third-party organization, the GREENGUARD Environmental Institute certifies products and materials for low chemical emissions and serves as a resource for choosing healthier products and materials for indoor environments. All certified products must meet stringent chemical emissions standards based on established criteria from key public health agencies. GREENGUARD Certification is broadly recognized and accepted by sustainable building programs and building codes worldwide. For more information and a complete listing of certified products, visit [www.greenguard.org](http://www.greenguard.org).