

**Carl S. Vineyard, P.E., QSTI**  
*Vice President — Engineering & Quality Assurance*  
*Plainfield, IN office*

**PROFESSIONAL SUMMARY:**

Mr. Vineyard is Vice President of Engineering and Quality Assurance for Grace Consulting Inc. and started **GCI** in April of 2000. In addition to his administrative duties, he coordinates all air quality testing projects from initial planning through issuance of the final report. He directs a staff of test technicians in equipment calibration, test performance, and laboratory work. He oversees quality control of projects through review of test reports, quality control training and development of test procedures. He consults with clients on test regulations and performs air pollution control systems evaluations.

**FIELDS OF EXPERTISE:**

Air quality; ambient monitoring and source emission testing; air pollution control system evaluations; Continuous Emissions Monitoring Systems evaluations; heat rate monitoring; and evaluation support.

**SELECTED PROJECT EXPERIENCE:**

Since 1975, Mr. Vineyard has experience in numerous field test projects. This experience extends to the following source types:

- Power Generation Units
- Oil Refinery Catalytic Crackers
- Incinerators
- Process Steam Boilers
- Munitions Facilities and Furnaces
- In addition to the above testing experience, Mr. Vineyard has applied the procedures for the New Source Performance Standards in determining control requirements for Particulates, NO<sub>x</sub>, SO<sub>2</sub>, VOCs and CO.
- He has performed numerous tests associated with determining the efficiencies of gas cleaning systems for both diagnostic and compliance purposes.
- He has performed studies to determine laminar flow, dust resistivity, particle sizing, and plume opacity.

**EDUCATION:**

University of Missouri – Rolla, MO  
Bachelor of Science Degree, Mechanical Engineering

**REGISTRATION / CERTIFICATIONS:**

Professional Engineer, State of Ohio, Texas and New York  
Qualified Source Testing Individual having passed all four groups

**PROFESSIONAL AFFILIATIONS:**

Air and Waste Management Association  
National Society of Professional Engineers  
National Society of Mechanical Engineers  
Source Evaluation Society