

## Curriculum Vitae

Patty L. Hass

### Experience:

**2003 – Present** Chatham Research, Ltd.

President and Scientist Associate. Responsible for the overall management and direction of the company. Participates as appropriate in projects for clients.

**2004 – Present** Eno River Labs, LLC, Durham, NC

Positions and duties include the following:

Quality Assurance Director - Responsible for oversight of the total quality system, evaluation of data for quality and integrity, and assuring the application of the quality system by all departments. Provided training in FDA and EPA Good Laboratory Practices (GLP) and other quality issues as needed. Planned and executed inspections for FDA and EPA regulated GLP studies. Investigated problems as needed.

Technical Assistant to President – Investigate technical issues and problems, looking for cause and effect relationships. Recommend improvements to the production process and analytical reports. Review reports for GLP studies for completeness and accuracy.

**1993 - 2004** Triangle Laboratories, Inc., Durham, NC

Positions and duties included the following:

Quality Assurance Director - Responsible for oversight of the total quality system, evaluation of data for quality and integrity, and assuring the application of the quality system by all departments. Provided training in FDA and EPA Good Laboratory Practices (GLP) and other quality issues as needed. Planned and executed inspections for FDA and EPA regulated GLP studies. Investigated problems as needed.

Technical Assistant to President - Conducted research projects as required by the President. Analyzed data and issues for cause and effect relationships as well as application to current projects. Made recommendations for process improvements as needed.

Analytical Services Co-Director – Responsible for development of production plans to meet company goals and coordination of implementation with department managers. Allocate resources between areas. Improved production workflow and product quality, resulting in reduction of average turn around time from >28 days to 12 days..

Project Manager - Conducted research projects as required. Interacted with clients to resolve issues related to problem sample matrices. Developed custom database formats to meet special needs of clients needing easy transfer of laboratory data into their in-house databases. Performed production planning on an as-needed basis.

1432 Copper Creek Drive  
Durham, NC 27713

(919) 450-0265 home  
(919) 949-8581 mobile

Standards Chemist - Prepared standard solutions for trace analyses with a high degree of accuracy and precision. Designed a testing procedure to ensure the accuracy of standards prior to use in the production laboratory. Developed and maintained a custom database of the standard materials inventory.

GC/MS Work Group Leader - Supervised high resolution mass spectrometry personnel and organized resources to meet production requirements.

On-Site Production Consultant (4/93 - 8/93) - Conducted an evaluation of the production practices and associated computer systems through "hands-on" participation in the major production areas.

**1988 - 1993** IEA, Inc., Cary, NC

Positions and duties included the following:

Computer Services Director - Responsibilities included selection, implementation and administration of a networked computer system for order entry, sample receipt, analytical scheduling and invoice processing.

Technical Services Director - Reviewed final laboratory data for technical accuracy. Managed the generation of final reports including quality checks. Responded to client questions regarding analytical results, methods, and state or federal regulations.

Quality Assurance Director - Developed and administered the laboratory's quality assurance program. Interacted with laboratory personnel ensure laboratory compliance with regulations. .

**1979 - 1987** CompuChem Laboratories, Inc., Research Triangle Park, NC

Positions and duties included the following:

Technical Affairs Director - Responsible for oversight of new product development. Evaluated laboratory capacity/flexibility for new methods, and special projects on an as-needed basis. Provided technical supervision for the product development laboratory staff.

GC/MS Laboratory Manager - Managed production from extraction through GC/MS analysis. Developed systems for expediting the preparation and analysis of samples in a timely, accurate and cost effective manner

Sample Preparation Laboratory Manager - Managed laboratory staff to provide timely and accurate preparation of water and soil samples for further analysis

Quality Control Manager - Responsible for implementation and management of quality control systems to ensure the quality of laboratory analyses and the resulting data.

Senior Chemist - Operated GC/MS instruments performing volatile and semivolatile analyses., AutoAnalyzers, and gas and liquid chromatographs. Reviewed resulting analytical data and compiled reports.

**1978 - 1979** Sales Representative, Southern Analytical, Inc., Raleigh, NC

Provided sales and repair services for gas and liquid chromatograph units.

**1974 - 1978** Chemist, South Carolina Dept. of Health & Environmental Control, Columbia, SC

Performed a variety of laboratory analyses utilizing the following equipment: GC/MS, GC/ECD, AutoAnalyzers and atomic absorption spectrometers.

### **Education:**

Furman University, Greenville, SC, 1973, B.S. Chemistry

### **Training:**

#### Technical Training

1993-Present Training & development curriculum as required by Triangle Laboratories, Inc. Documentation of training completed is available for inspection in individual training file.

1990 Course Programming Principles  
Location NC State University, Raleigh, NC

1978 Course Finnegan Data System Course  
Location Finnegan Training Institute  
Cincinnati, OH

1977 Course Finnegan GC/MS Operators Course  
Location Finnegan Corporation  
Sunnyvale, CA

#### GLP Training

2/6-7/97 CourseGLPs for Scientists and Staff  
Instructor Deena Miller & Debbi Garvin  
Location Raleigh, NC

3/13/95 CourseGLP Training  
Instructor Paul Lepore  
Location Triangle Laboratories, RTP Site

3/28/ 95 CourseManagement Responsibility in a GLP Environment  
Instructor Paul Lepore  
Location Triangle Laboratories, Chapel Hill, NC

3/27/ 95 CourseData Integrity and FDA Fraud  
Instructor Paul Lepore  
Location Triangle Laboratories, RTP Site

3/19-22/ 95	Course	Good Laboratory Practices Training Course
	Sponsor	PhRMA Education & Research Institute
	Location	Chicago, IL
10/3/ 94	Course	Ethics, Integrity, and Competency
	Sponsor	Society of Quality Assurance
	Location	10th Annual Meeting, New Orleans, LA
10/3/ 94	Course	Applied Statistics
	Sponsor	Society of Quality Assurance
	Location	10th Annual Meeting, New Orleans, LA
8/13-16/94	Course	Introduction to GLPs and Auditing
	Instructor	Carl Morris
	Location	The International Center for Health and Environmental Education, Morrisville, NC