
Qualifications Summary

Mr. Healy has been in the environmental laboratory industry since 1982, that includes laboratory operations management; business development and business management; operating plan development and capital planning; acquisition(s) integration; human resource policy and benefits design/administration; facilities design and construction oversight; strategic planning; consulting; proposal preparation and project management/execution; Health and Safety; hazardous waste management; quality Assurance/Quality Control; procurement; presentations; training; laboratory analysis and field sampling.

Professional Experience

Laboratory Director – Eurofins TestAmerica – 1982 to present

Mr. Healy is responsible for the technical and administrative management of Chicago's full service analytical laboratory which includes chemists, scientists, field personnel and project managers. His other responsibilities include adherence to budget, staff development and control, quality assurance and quality control, scheduling, client support/liaison, as well as profit and loss responsibility for the Chicago facility. In addition, Mr. Healy has managed the closure and consolidation of 3 regional laboratories, successfully relocating equipment, personnel and client accounts.

General Manager

His responsibilities as General Manager for multiple facilities included the transition/integration of the Valparaiso laboratory into the Severn Trent Laboratory organization, ensuring timely compliance with existing corporate business practices related to accounting, Human Resources, Quality Assurance and Health/Safety.

Vice President and Operations Manager

Co-Lead on transition team assembled by Weston to identify and qualify potential buyers of the Weston laboratory assets. Key participant in subsequent due diligence activities and eventual integration process, which included standardization of operating and business practices, as well as procurement/implementation of an enhanced employee benefits package.

Laboratory Manager

Directed the application process and subsequent implementation of a SNM license, which allows the laboratory to accept/analyze samples that are considered to be mixed waste (i.e., samples that are both chemically and radiologically contaminated). Specific activities included interfacing with the State of Illinois Nuclear Regulatory Commission (NRC) officials during the application process, staff orientation and training, procurement of required monitoring equipment, facility design modifications, and creation of relevant standard operating procedures (SOPs) on sample handling, radiation safety, and waste disposal.

Gave a presentation to 30+ IEPA laboratory management staff on effective management of the laboratory as a business. Topics included management of capacity and production, management of operating costs, strategic planning, investment planning, and challenges/strategies for survival success.

Division Operations Manager

Directed the orderly and timely closure of WESTON's Stockton, CA laboratory which employed a staff of 50 and generated revenues in excess of \$3 million per year. Specific responsibilities included staff notification and design of outplacement activities; client, vendor and certifying agency notification; reallocation of contracts; equipment/inventory reallocation and sale; negotiations with landlord on lease termination and building restoration; and establishment of an ongoing service center that includes marketing and project management staff to serve regional client base.

Laboratory Manager

Responsible for all activities associated with the phased construction/renovation of 51,000 square feet (ft²) of laboratory and office space. Responsibilities included conceptual design, budgeting, creation of bid specifications, contractor selection, and management oversight of the project, which cost in excess of \$3.25 million and spanned a 4-year period.

Project Manager

- ◆ Provided expert testimony pertaining to laboratory operations/practices in support of a remedial investigation/feasibility study (RI/FS) conducted by the WESTON for IDOT.
- ◆ Responsible for oversight of analytical work conducted in support of cleanup activities at the Old Mill Superfund Site in Rock Creek, OH.
- ◆ As Field Supervisor, acted in lead role on behalf of Waste Management, Inc. on an EPA Region V Groundwater Task Force investigation at ESL and CID landfills.
- ◆ Member of a team that designed and implemented the IEPA CLP Bottle Distribution Program. The program was created to ensure that certifiably clean sample containers are used for all analytical work performed in support of IEPA sampling activities. The project scope included specification of materials, creation of standard operating practices and documentation requirements, and the establishment and staffing of a remote, project-dedicated facility. The scope of work entailed the development and presentation of training sessions for IEPA staff and IEPA contract laboratories on procedures for ordering containers, shipping samples, and completing necessary documentation.
- ◆ Member of a team that organized and presented on-site groundwater monitoring seminars for Waste Management, Inc. personnel and contractors throughout the U.S.
- ◆ Member of a project team that wrote and compiled "The Manual for Groundwater Sampling" copyrighted by Waste Management, Inc., 1985.

Education

- ◆ B.S. in Environmental Biology (Minors: Botany, Zoology) – Eastern Illinois University (1982)
- ◆ Chairperson-Elect, Board of Advisors to College of Sciences – Eastern Illinois University

Author

Wrote the Gulf Coast Laboratories, Inc. QA plan for combustible gas monitoring. Document specified instrumentation, standard operating practices, quality assurance/quality control (QA/QC) criteria, and documentation requirements.

Qualifications Summary

Ms. Preston has a B.A. in Biology from Jamestown College, Jamestown, ND. She has extensive experience in the environmental laboratory industry and has been with the Chicago laboratory since 1984. She is experienced in environmental laboratory quality assurance practices, management, communications and analytical chemistry. Ms. Preston is responsible for the development and management of the laboratory's quality assurance program. She has considerable experience in preparing and implementing laboratory quality assurance and project specific plans, which include RI/FS and other projects for both the IEPA and U.S. EPA Region V contracts. She is an experienced laboratory data auditor, and performs contract and method compliance monitoring.

Professional Experience

Quality Assurance Manager – Present

Ms. Preston has extensive knowledge of QA practices and procedures in the laboratory and in the development and validation of analytical methods on the LIMS system; Proficient in the evaluation, development and implementation of various Agency programs and project/client specific Quality Assurance Plans. Her responsibilities also include the management of the Quality Assurance Department. She also works closely with the Project Management Department in evaluation, development and validation of Quality Assurance Plans or Project requirements.

Quality Specialist – 1985 to 2001

Her experience as the Quality Specialist includes all aspects of Quality Control practices in the laboratory. With a concentration of laboratory data audits; data package review; statistical control limit evaluation, and method validation. Routinely involved in the evaluation, development and implementation of project specific requirements in the form of contributions to a Quality Assurance Plan or Project Checklist. Her experience also includes the development and validation of analytical methods and criteria code associated with the LabNet LIMS system.

Analyst – 1984 to 1985

Ms. Preston experience included performing alkalinity, cyanide, phenol and nitrite analyses; operation of Graphite Furnace and Flame AA.

Education

- ◆ B.A. in Biology at Jamestown College (1984)

Professional Training

- ◆ Quality Assurance of Chemical Measurements – ACS short course
- ◆ Flameless AA Spectroscopy Training Course – Thermo-Jarrell Ash Corporation (1987)
- ◆ Managing Hazardous Wastes – APWA (1985)
- ◆ Management by Responsibility Seminar (1988)
- ◆ Northern Illinois Water Analysts Member (1986-Present)
- ◆ Ethics Training

Ray Shock
Technical Director

Qualifications Summary

Mr. Shock has a B.S. degree in Chemistry from Hope College, Holland, MI. He has been in the environmental laboratory industry since 2005. Mr. Shock was a Senior Chemist in Eurofins TestAmerica's Canton laboratory, where he was instrumental to the development of our approach for Methyl Mercury analysis. He moved to the Chicago laboratory to assume the role of Technical Director in 2018. Mr. Shock represents Eurofins TestAmerica's Ask The Expert team as an expert on Classical Wet Chemistry.

Professional Experience

Technical Director – Eurofins TestAmerica – 2018 to Present

As Technical Director he has been focused on modernizing and maximizing the efficiency of the classical wet chemistry department. Responsibilities include writing, editing and approving technical documentation including, but not limited to, System Procedures, laboratory Standard Operating Procedures (SOPs), work plans, technical input to Quality Assurance Program Plans (QAPPs) and similar program management documentation and technical proposals.

Assists in the selection of major equipment purchases. Provides technical assistance for automation, standardization and computerization in the laboratory. Maintains close liaison with the laboratory director and quality assurance group to review client data, interpret technical issues in QAPPs and other quality assurance related documents, including laboratory specific Standard Operating Procedures (SOPs). Serves as consultant on technical issues related to method selection, and development of client proposals or work plans. Develops business implementation plans, and manages development of technical capability to meet these plans within the laboratory. Solves technical problems in the laboratory and develops or modifies methods as needed to meet customer requirements. Performs unusual or customized analyses.

Senior Chemist –2005 to 2018**Education**

- ◆ B.S. Chemistry – Hope College, Holland MI

Robin Kintz
Project Manager

Qualifications Summary

Ms. Kintz began her laboratory and project management experience in the industrial manufacturing and pharmaceutical research industries in 1997. She manages environmental projects for consulting and engineering firms, industrial plants, and wastewater treatment plants providing support in wastewater, remediation, land application, and waste programs.

Professional Experience

Project Manager – 2013 to Present

Ms. Kintz is responsible for guidance to clients on method and technical issues, proposal preparation, project quotation, implementation and management. She provides the laboratory staff with information to assist in project planning & prioritization. She is responsible for reviewing and approving the final reports.

Project Manager – 2007 to 2012

Ms. Kintz's responsibilities include oversight and coordination of client projects from development to completion. She provides competitive analytical quotations, reports, data packages, and EDDs. Ms. Kintz was responsible for overseeing the Project Management Group out of the Valparaiso Lab consisting of 3 Project Managers, 1 Project Manager Assistant, and 1 Data Analyst.

Administrative Consultant - 2005 to 2007 - Sertoma Centre, Inc. - Alsip, IL**Project Coordinator – Report Services Department – 2003 to 2005 - MPI Research - Mattawan, MI****Study Coordinator – Report Services Department – 2002 to 2003 - MPI Research - Mattawan, MI****Research Associate I and II – Safety Pharmacology Department 2000 to 2002 - MPI Research - Mattawan, MI****Laboratory Technician – Technical Service Adhesives Division – 1997 to 2000 - National Starch and Chemical Company - Chicago, IL****Education**

- ◆ B.S. Biology - Ferris State University, Big Rapids, MI - 1997

Professional Training

- ◆ Coursework: Excel XP/2003 (Excel Charting) Level II

Qualifications Summary

Ms. Petruszak holds a B.S. in Biology from Illinois State University. She has experience in the environmental laboratory industry since 1989. Her years of experience in the laboratory working on the analysis of Volatile Organic Compounds by GC/MS have given her the expert knowledge she needs to be a productive leader. She is an Organic Extraction/concentration specialist and Gel Permeation Chromatography (GPC) including trouble-shooting and general maintenance.

Professional Experience

Operations Manager – 2018 to Present

Supervises all operations laboratory personnel and provides professional development and direction to department supervisors. Evaluates laboratory processes to determine path of continuous improvement. Responsible for ensuring compliance and integration of facility operation with corporate and regulatory policies and procedures while managing supply, instrument, and personnel resources. Serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. Coordinates workshare with sister Laboratories.

GCMS VOA Supervisor – 2000 to 2018

Ms. Petruszak has extensive experience as the GC/MS Unit leader, her management responsibilities include scheduling of analysis; overseeing standards preparation; review of analytical data and data books.

GC/MS Analyst – 1989 to 2000

She has experience in organic extractions performing methods from SW-846, 40CFR and CLP Protocols for BNAs, Pesticides/PCBs, Herbicides, PAHs and Petroleum Hydrocarbons by GC. Additional experience in the preparation of fish samples for Pesticide/PCB analysis. Her experience also involves clean-up procedures for Pesticides/PCBs analysis including but not limited to Sulfuric Acid Clean-ups and Florisil Clean-ups. As a laboratory technician she was designing and conducting experiments concerning the remodeling of spermatozoan plasma membranes, and general laboratory duties.

Education

- ◆ B.S. in Biology – Illinois State University (1989)

Professional Training

- ◆ Baxter Research Award
- ◆ Phi Sigma Honor Society
- ◆ Ethics Training

Qualifications Summary

Mr. Kolarczyk has been in the environmental laboratory industry since 1990. He has a M.S. in Environmental Biology and a B.S. in Biology with a minor in Chemistry. Mr. Kolarczyk supervises the Wet chemistry personnel providing technical and operational support. His years of experience as an analyst working on a variety of analyses in the laboratory and various instruments has given him the expert knowledge needed to be a productive leader in the environmental field.

Professional Experience

Wet Chemistry Supervisor – 2019 to present

Mr. Kolarczyk provides technical and operation support to his staff while also participating in daily sample production. He coordinates work projects with the Project Managers to appropriately prioritize laboratory workload to meet client requirements. He manages all projects for the department to ensure On Time Delivery and Turnaround Time requirements are met. Maximizes productivity and ensure appropriate testing procedures are in compliance with QA and SOP requirements. Reviews data produced in the department and authorizes its release.

Analyst – 1990 to 2018

- ◆ Experience on inorganic test for metals prep, ICP, AA, HG analysis as well as experience in wet chemistry tests.
- ◆ Data Review and report generation and review for inorganic tests.
- ◆ Supervised the metals department in absence of Metals Manager.
- ◆ Gather and organize information on problems or procedures for methods.
- ◆ Prepare manuals and train workers on new forms, reports, procedures or equipment, according to organizational policy.

Education

- ◆ M.S. Environmental Biology – Governors State University – University Park, IL 1998
- ◆ B.S. Biology – Valparaiso University – Valparaiso, IN – 1990
- ◆ Minor in Chemistry

Professional Training

- ◆ Ethics Training
- ◆ Customer Service Training

Gary L. Rynkar
GCMS SVOC Supervisor

Qualifications Summary

Mr. Rynkar holds a B.S. in Environmental Biology from Eastern Illinois University. He has been in the environmental laboratory business since 1988. His current position is Semi-Volatile Supervisor for the GC/MS Department. Previously he was Unit Leader for the GC/MS Semi-Volatiles Department; GC/MS analyst for Semi-volatile compounds; Wet chemistry analyst focusing on Standard Methods, EPA Methods, and ASTM Methods, using various gravimetric, titrimetric, colorimetric and instrumental techniques.

Professional Experience

GCMS and GC SVOA Supervisor – 2000 to Present

His current position is Semi-Volatile Supervisor and his responsibilities include overseeing the day to day operations of the GCMS and GC SVOA department, scheduling of analysis; overseeing standards preparation; review of analytical data and data books. Mr. Rynkar is also responsible for compliance to EH&S and Quality Assurance programs, staff training and turnaround time commitments.

GC/MS Semi-Volatiles Unit Leader – 1991 to 2000

His previous experience as Unit Leader for the GC/MS Semi-Volatiles Department included GC/MS analyst for Semi-volatile compounds; Wet chemistry analyst focusing on Standard Methods, EPA Methods, and ASTM Methods, using various gravimetric, titrimetric, colorimetric and instrumental techniques.

Analyst – 1988 to 1991

Experience includes sample analysis, mass spectra interpretation, data review and instrument maintenance. Instrument experience includes Hewlett Packard GC/MS Models which utilize Model 5890 Series II GCs. The GC/MS department utilizes a Perkin-Elmer LIMS System with concurrent software and UNIX System. Method analysis include 40 CRF Part 136 Method 625; SW-846, Test Methods for evaluating Solid Waste, Physical and Chemical Methods.

Education

- ◆ B.S. in Environmental Biology from Eastern Illinois University (1988)
- ◆ A.S. Moraine Valley Junior College (1986)

Professional Training

- ◆ Phi Sigma Biological Honor Society
- ◆ National Honor Society
- ◆ Who's Who of America's High School Students (1983)
- ◆ Ethics Training

Elaine Alikpala
GCMS VOA Supervisor

Qualifications Summary

Ms. Alikpala holds a B.S. in Chemistry from College of Holy Spirit. She has experience in the environmental laboratory industry since 1997. Her years of experience in the laboratory working on the analysis using and adhering with EPA methodologies 8260, 624, 8015, have given her the expert knowledge she needs to be a productive leader. Her skills include maintenance, troubleshooting and repair of autosamplers, sample concentrators, GC/FIDs and specially GC/MS instrumentations.

Professional Experience

GCMS VOA Supervisor – 2018 to Present

Ms. Alikpapa has extensive experience in the GC/MS VOA department, her management responsibilities include overseeing the day to day operations of the GCMS VOA department, scheduling of analysis; overseeing standards preparation; review of analytical data and data books. Ms. Alikpala is also responsible for compliance to EH&S and Quality Assurance programs, staff training and turnaround time commitments.

GC/MS VOA Analyst – 1997 to 2018

Her responsibilities included analysis of waters, soils and TCLP VOA samples for EPA method 8260 and 624; GC/FID VOA (GRO) analysis using EPA 8015 method. Making sure all analysis adheres to and follows laboratory SOPs and Client's QAPP; and that all analysis and data are scientifically sound and legally defensible. She was also responsible for the maintenance and troubleshooting of the instruments.

Education

- ◆ B.S. in Chemistry – College of the Holy Spirit – Manila, MetroManila, Philippines

Professional Training

- ◆ Philippine Professional Commission
- ◆ Professional License Chemist

Debbie A. Johnson
Metals Supervisor

Qualifications Summary

Ms. Johnson has a B.S. in Biology from Millikin University. She has been in the environmental laboratory industry since 1991. Ms. Johnson has an extensive background in inorganic metals analyses using SW-846 Methods, U.S. EPA CLP ILM04.0, Standard Methods for the Examination of Waters and EPA 600 Series Methods. Previously Ms. Johnson was a Lab Analyst for the Metals Department and her experience includes GFAA and Hg analysis, Sample Preparation and TCLP extraction. She has been with the laboratory since 1991.

Professional Experience

Metals Supervisor – 2007 to Present

Ms. Johnson's responsibilities include supervising the activities of the Metals Group who are involved in the metals sample preparation, TCLP extraction, mercury analysis, trace metals analysis by ICP and GFAA, CLP data package generation and review.

Lab Analyst – 1991 to 2007

Responsibilities include generating and reviewing inorganic CLP packages, working in metals digestion, TCLP extractions, HG and GFAA analysis.

Education

- ◆ B.S. in Biology at Millikin University (1991)

Professional Training

- ◆ Ethics Training

Daniel A. Knieriemen
Organic Prep Supervisor

Qualifications Summary

Mr. Knieriemen has been in the environmental laboratory industry since 1990. His experience includes Unit Leader and Organic Extractions/Concentration Specialist. Performed analysis by Gas Chromatography (GC) and High Performance Liquid Chromatography (HPLC). Analytical Wet Chemistry analysis using EPA Standard Methods and SW-846 Methods. Techniques include spectrophotometric, titrimetric, gravimetric and various distillations. Mr. Knieriemen has a B.A. in Chemistry from Indiana University Northwest.

Professional Experience

Organic Prep Supervisor – 1997 to Present

Mr. Knieriemen's current responsibilities include the overseeing of the day to day operations in the Organic Extractions department which performs organic extractions and concentrations. His experience includes performing extraction methods for SW-846, 40CFR, CLP Protocols for BNAs, PCB/Pesticides, Herbicides, PAHs, and Petroleum Hydrocarbons by GC.

Analyst – 1990 to 1996

His experience in extractions included analysis of various matrices such as soil, sediments, waters, wipe samples, waste samples and the preparation of fish samples for PCB/Pesticides analysis. He also has experience in Gel Permeation Cleanup (CPC) which included troubleshooting and maintenance. Experience analyzing samples by Gas Chromatography (GC) and Polynuclear Aromatic Hydrocarbons (PAHs) by High Performance Liquid Chromatography (HPLC). He also worked as a wet chemistry analyst testing ammonia, TSS, TDS, cyanide, sulfide, reactive cyanide, reactive sulfide, bromide/bromine, sulfate, TKN, BOLD, pH, hexavalent chromium, nitrite, and phosphorus.

Education

- ◆ B.A. in Chemistry, Junior Standing – Indiana University Northwest

Professional Training

- ◆ Ethics Training

Jeffry A. James
Sample/Field Services Manager

Qualifications Summary

Mr. James holds a B.A. in Music Education from Eastern Illinois University. He has extensive environmental laboratory experience and has been with the Chicago laboratory since 1989. Mr. James previously served as a project manager for several large industrial programs, including NPDES, municipal and wastewater clients. He now manages the Sample Receipt Department. His expertise includes consultation on the most cost effective approaches for environmental sampling. His experience includes sampling of a variety of matrices, well development, combustible gas monitoring, and field data collection. He has extensive training in environmental health and safety procedures, and hazardous shipping. Mr. James also served as Field Sampling Unit Leader, Bottle Project Unit Leader, Facility Manager, and Field Technician.

Professional Experience

Sample Management/Field Services Manager – 1999 to present

Mr. James experience includes Sample Log-in Manager and Bottle Supply Manager, Field Services Manager, Courier Manager, project management. Mr. James coordinates the sampling efforts of the laboratory, and maintains the scheduling of client sample pick up services. Oversees the sample receipt department, reviews and validates that the custody of the samples are not compromised.

Field Sampling Unit Leader – 1998 to 1999

Environmental sampling and data documentation for groundwater, surface water, soils, sediment, landfill gas, leachate, drinking water, gas condensate, HACH Kit analysis, and ISCO sampling. Lead in drinking water sampling. Calibration and application of Beckman pH Meter, Cambridge Conductivity Meter, YSI Dissolved Oxygen Meter, and Gastech NP-204 combustible gas meter.

Bottle Project Unit Leader - 1994 to 1998

Responsibilities include maintaining full stock of sample containers, preservatives; shipment of sample container orders; tracking of containers, preservatives and shipping containers. All sample containers are received pre-cleaned according to US EPA bottle washing procedures and certifications of analysis are available for both the containers and preservatives.

Field Technician - 1989 to 1994

Experience in the technical application, installation, maintenance and sampling of groundwater monitoring systems (QED, SIGMA) in Illinois and Indiana; application of GASTECH NP>204 for detection of methane gas via the barhole method and permanent probe monitoring; soil and sediment sampling and soil description via the bucket auger method and split spoon collection.

Education

- ◆ B.A. in Music Education at Eastern Illinois University (1983)

Jeffry A. James
Sample/Field Services Manager

Professional Training

- ◆ WMI Groundwater Sampling Seminar (1990)
- ◆ 40-Hour Health & Safety Training (1989)
- ◆ 8 Hour Health & Safety Refresher Training Course (Annually, 1990-2003)
- ◆ 8 Hour CPR/First Aid Training (1989)
- ◆ 8 Hour CPR/First Aid Refresher Training Course (Annually, 1990-2003)
- ◆ Ethics Training

Personnel Resume

Carolynne M. Roach
Laboratory Director

Qualifications Summary

Ms. Roach has a BS degree in Biology from the University of Akron. She has over 20 years of environmental laboratory experience, ranging from Chemist/Analyst in the Organic Prep Dept, MS Volatiles Dept and the GC SemiVolatiles Dept. in which she served as the Group Leader. Ms. Roach has been with the Canton facility since 1991.

Professional Experience

Laboratory Director – TestAmerica Canton - 2015 to present

Ms. Roach's responsibilities include the overall management of the analytical laboratory, four service centers (Brighton, MI, Cincinnati, OH, Columbus, OH, Cambridge, OH), and operations and customer service staff, including approximately 100 scientists, project managers, and other personnel. The functional groups of the facility include Sample Control, Sample Preparation, Organic Chemistry, Metals, General Inorganic Chemistry, Project & Customer Service Management, Quality Assurance, Information Technology, Health & Safety and Facility Compliance. Her other responsibilities include adherence to operation plans, staff development and control, quality assurance and quality control, scheduling, client support/liaison, as well as profit and loss responsibility for the Canton facility.

Operations Manager – TestAmerica Canton - 2013-2015

Responsible for maintaining positive operating margin to the company at the business unit level and for meeting and exceeding the annual budget. Supervises all laboratory personnel and provides professional development and direction to group leaders, team leaders and project managers. Evaluates laboratory processes to determine path of continuous improvement. Responsible for ensuring compliance and integration of facility operation with corporate and regulatory policies and procedures while managing supply, instrument, and personnel resources.

GC SemiVolatiles Group Leader - TestAmerica Canton - 2009-2013

Responsibilities include setup, calibration and analysis on GC/MS Semi-Volatile instrumentation using current EPA protocol, maintaining and troubleshooting department instrumentation, preparing analytical standards and reagents, performing Level I and II QC review, record test results after performing review, calculations and interpretations of sample data, report generation, and daily operating functions of department (such as managing departmental staffing, performance, quality, and budgets). Managing supply, instrument, and personnel resources; Developing budgets and business plans; Setting group and organizational goals; Employee professional development and training; Process evaluation and improvement; Teambuilding and excellent communication skills; Implementing quality control procedures; Supporting Health & Safety programs; Method development and final review; Evaluates instrument performance and supervises calibration, maintenance, and scheduling of repairs. Responsible for data review, QAQC requirements, and reporting of non-conformances to the appropriate Managers.

Analytical Methods and Instrumentation: Organic Extractions by Soxhlet, Sonication, Separatory funnel; Liquid-liquid Organic Extractions; GC Semi-Volatiles Analysis by Electron Capture Detector (ECD), Flame Photometric Detector; HPLC Analysis; PCB, Pesticide, Herbicide Analysis; Methanol Analysis, Total Petroleum Hydrocarbons; Semi-volatile Organic Compounds by Gas Chromatography.

Personnel Resume

Carolynne M. Roach
Laboratory Director

MS Volatiles, Chemist - TestAmerica Canton - 2003-2009

Responsibilities include sample preparation, setup, calibration and analysis on GC/MS Volatile instrumentation using current EPA protocol, maintaining and troubleshooting department instrumentation, preparing analytical standards and reagents, performing Level I and II QC review, completing necessary paperwork as part of sample analysis, including data review, calculations, data entry and data reporting.

GC Semi-Volatile, Senior Chemist - TestAmerica Canton - 1992-2003

Responsibilities include performing Level I, II, and final QC review, analysis on GC Semi-volatile instrumentation using current EPA protocol, maintaining and troubleshooting department instrumentation, performing review, calculations and interpretations of sample data, and communication with project management staff on project requirements. Process evaluation and improvement; Analytical, problem-solving, and communication skills; Knowledge and implementation of Quality Assurance Concepts; Time management and organizational skills; Knowledge of analytical chemistry techniques for analysis of organic and inorganic constituents and environmental analytic methods. GC Semi-Volatiles Analysis by Electron Capture Detector (ECD), Flame Ionization Detector; HPLC Analysis; PCB, Pesticide, Herbicide Analysis; OPP Analysis using FPD's; Total Petroleum Hydrocarbons; PAH analysis by HPLC and Gas Chromatography.

Organic Preparation, Analyst - TestAmerica Canton - 1991-1992

Performed analytical methods and data recording in accordance with documented procedures. Performed and documented calibration and preventive maintenance of instruments. Performed data processing and data review procedures. Reported nonconformances to the supervisor/manager and QA manager. Ensured sample and data integrity by adhering to internal chain-of-custody procedures. Responsible for meeting quality requirements.

Education

- ♦ Bachelor of Science, Biology - University of Akron, 1986

Professional Training

- ♦ Ethics Training

Personnel Resume

Lucas Grossman
Technical Director

Qualifications Summary

Mr. Grossman has a BS degree in Chemistry. He has been in the environmental laboratory business since 2010, with positions ranging from chemist/analyst in general chemistry and GC Semi-volatiles to supervisor in general chemistry. Mr. Grossman's responsibilities include evaluation of new instrumentation, providing technical assistance for automation, standardization and computerization of the laboratory, working with H&S to identify hazards in the laboratory and design corrective procedures. Mr. Grossman also serves as consultant on technical issues related to method selection, development of proposals or client work plans, solves technical problems in the laboratory, and develops or modifies methods as needed to meet customer requirements. Mr. Grossman has been with the North Canton facility since 2010.

Professional Experience

Technical Director – Eurofins TestAmerica Canton — 2013 to present

Responsibilities include writing, editing and approving technical documentation including, but not limited to, System Procedures, laboratory Standard Operating Procedures (SOPs), work plans, technical input to Quality Assurance Program Plans (QAPPs) and similar program management documentation and technical proposals.

Serves as a major resource in identifying hazards associated with operations and chemicals used in the laboratory. Assists the TestAmerica Health and Safety Officer in communicating health and safety issues to laboratory personnel. Reads current literature and attends appropriate conferences and meetings in order to remain current with environmental analytical chemistry and regulatory requirements for management decision-making in the laboratory.

Assists in the selection of major equipment purchases. Provides technical assistance for automation, standardization and computerization in the laboratory. Maintains close liaison with the laboratory director and quality assurance group to review client data, interpret technical issues in QAPPs and other quality assurance related documents, including laboratory specific Standard Operating Procedures (SOPs). Serves as consultant on technical issues related to method selection, and development of client proposals or work plans. Develops business implementation plans, and manages development of technical capability to meet these plans within the laboratory.

Conducts needs assessments and develops/presents technical training programs in the laboratory. Assists project management by reviewing client reports and participating in client information exchanges as needed.

Analyst - GC Semi-Volatile – Eurofins TestAmerica Canton — 2018 to 2021**General Chemistry, Supervisor TestAmerica Canton — 2013 to 2018****Analyst – General Chemistry - TestAmerica Canton, OH — 2010 to 2013**

Personnel Resume

Lucas Grossman
Technical Director

Education

- ♦ Bachelor of Science, Chemistry, University of Akron, 2010

Professional Training

- ♦ Ethics Training – annual
- ♦ EH&S Training – monthly
- ♦ TA Technical training: including, but not limited to Calibration, Manual Integration, Supervisor training, etc.

Personnel Resume

Raymond M. Ridsen
Technical Director

Qualifications Summary

Mr. Ridsen has a BS degree in Biology, with a minor in Chemistry from Walsh University. He has been in the environmental laboratory business since 1992, ranging from chemist/analyst in the Organic Prep and GC departments to Operations Manager. Mr. Ridsen's responsibilities include evaluation of new instrumentation, providing technical assistance for automation, standardization and computerization of the laboratory, working with H&S to identify hazards in the laboratory and design corrective procedures. Mr. Ridsen also serves as consultant on technical issues related to method selection, development of proposals or client work plans, solves technical problems in the laboratory, and develops or modifies methods as needed to meet customer requirements. Mr. Ridsen has been with the North Canton facility since 1992. Mr. Ridsen represents Eurofins TestAmerica's Ask The Expert team as an expert on Decommissioning and Complex Matrices.

Professional Experience

Technical Director – TestAmerica Canton — 2013 to present

Responsibilities include writing, editing and approving technical documentation including, but not limited to, System Procedures, laboratory Standard Operating Procedures (SOPs), work plans, technical input to Quality Assurance Program Plans (QAPPs) and similar program management documentation and technical proposals.

Serves as a major resource in identifying hazards associated with operations and chemicals used in the laboratory. Assists the TestAmerica Health and Safety Officer in communicating health and safety issues to laboratory personnel. Reads current literature and attends appropriate conferences and meetings in order to remain current with environmental analytical chemistry and regulatory requirements for management decision-making in the laboratory.

Assists in the selection of major equipment purchases. Provides technical assistance for automation, standardization and computerization in the laboratory. Maintains close liaison with the laboratory director and quality assurance group to review client data, interpret technical issues in QAPPs and other quality assurance related documents, including laboratory specific Standard Operating Procedures (SOPs). Serves as consultant on technical issues related to method selection, and development of client proposals or work plans. Develops business implementation plans, and manages development of technical capability to meet these plans within the laboratory.

Conducts needs assessments and develops/presents technical training programs in the laboratory. Assists project management by reviewing client reports and participating in client information exchanges as needed.

Solves technical problems in the laboratory and develops or modifies methods as needed to meet customer requirements. Performs unusual or customized analyses.

Operations Manager – TestAmerica Canton — 2003 to 2013**GC Semi-Volatile, GC Volatiles, Group Leader – TestAmerica Canton — 2002 to 2003**

Personnel Resume

Raymond M. Ridsen
Technical Director

GC Semi-Volatile, Group Leader – TestAmerica Canton — 1998 to 2002

Organic Preparation, Group Leader – TestAmerica Canton – 1995 to 1998

Analytical Services, Analyst – TestAmerica Canton – 1992 to 1995

Education

- ♦ BS in Biology, Minor in Chemistry - Walsh University - North Canton, OH--1992

Professional Training

- ♦ Restek's Capillary Chromatography Seminar, 1993
- ♦ Proper Peak Integration, 1996
- ♦ Chemical Warfare Agents, 1996
- ♦ GC Calibration Practices, 1998
- ♦ Effective Group Leadership, Techniques of Group Supervision, 2000
- ♦ Ethics Training – annual
- ♦ EH&S Training – monthly
- ♦ TA Technical training: including, but not limited to Calibration, Manual Integration, Supervisor training, etc.
- ♦ Six-part Supervisor Training – Kent State, Stark

Personnel Resume

Mark Loeb
Quality Assurance Manager

Qualifications Summary

Mr. Loeb brings several years of environmental analytical chemistry experience and Quality Assurance skills to TestAmerica. He currently has responsibility for overseeing the Quality Assurance activities for TestAmerica's Canton laboratory. In addition, Mr. Loeb has responsibilities for service centers in Cincinnati, Dayton, Columbus, and Cambridge in Ohio and one service center in Brighton, Michigan. As a Project Manager, he managed several large customers with projects based in multiple TestAmerica laboratories. Mr. Loeb is skilled in the operation of GC and ICP instrumentation. He has performed analyses for a wide variety of inorganic analytes as well as organic. He is experienced in various EPA protocols, including SW-846, CLP, and EPA 600 series.

Professional Experience

Quality Assurance Manager - TestAmerica Canton — December 2015 to present

The Quality Assurance Manager is responsible for developing and implementing the laboratory quality system. Responsibilities include implementing Quality Systems training for all new personnel; maintaining a Laboratory Quality Assurance Manual (QAM); ensuring that the laboratory's quality system and QAM meet the requirements set forth in the TestAmerica Quality Management Plan (QMP); overseeing details related to the laboratory's certifications, performance testing (PT) programs, root cause analyses and corrective actions; and systems, data, special, and external audits with both clients and regulatory officials. The QA Manager oversees the maintenance of QC records, Standard Operating Procedures (SOPs), and QA performance reporting. The QA Manager has the final authority to accept or reject data, and to stop work in progress in the event that procedures or practices compromise the validity and integrity of analytical data. The QA Manager is available to any employee at the facility to resolve data quality or ethical issues. The QA Manager is independent of laboratory operations.

Sr. Project Manager - TestAmerica Canton — 2003 to 2015**Project Manager I - TestAmerica St. Louis — 1999 to 2003****Quality Assurance Manager - EA Group-Mentor, OH — 1997 to 1999****Quality Assurance Scientist - TestAmerica Canton — 1991 to 1997****Analytical Chemist - TestAmerica Canton — 1987 to 1991****Education**

- ♦ BS in Chemistry - University of Akron - Akron, OH –1987

Professional Training

- ♦ Ethics Training – annual
- ♦ EH&S Training

Personnel Resume

Patrick J. O'Meara
Project Management Director

Qualifications Summary

Mr. O'Meara has been with TestAmerica Canton since 1991. He began his career with TestAmerica Canton as a laboratory technician and then advanced to become the Group Leader of the Metals Laboratory within the Canton Lab. He moved to a customer service role as Project Manager in 2005, and Project Manager Group Leader in 2009.

Professional Experience

Project Management Group Leader - TestAmerica Canton - 2009 to Present

Manages the Project Management Group in addition to supporting analytical projects for his own clients. Mr. O'Meara has a high level of knowledge with EPA method programs including SW-846, Office of Groundwater and Drinking Water, NPDES, ASTM and Standard Methods enabling him to provide his clients with the requisite technical support to ensure a successful project. Assists clients with determination of required sample volumes, preservatives and shipping procedures, and monitors projects from inception to completion.

Project Manager - TestAmerica Canton – 2005 to 2009

Responsibilities include preparation of technical bid documents, interacting with clients on the initiation and set-up of a project to define all of the requirements and expectations being placed on the laboratory, serving as a conduit for information flow between the client and the entire laboratory operation and receiving staff, monitoring projects to assure that all contractual, quality control, scheduling and cost objectives are met, reviewing and approving reports and project data packages, and reviewing and verifying client invoices for accuracy.

Group Leader, Metals - TestAmerica Canton – 1998 to 2005**Group Leader, Metals & General Chemistry - TestAmerica Canton - 1998-1999****Group Leader, Analytical Services - TestAmerica Canton – 1997to 1998****Senior Chemist, Metals - TestAmerica Canton – 1994 to 1996****Chemist, Metals - TestAmerica Canton/Independence, OH – 1991 to 1994**

Education

- ♦ Bachelor of Arts, Biology - Kent State University - 1985

Professional Training

- ♦ Ethics Training
- ♦ Leadership Training

**Joshua Weimer
General Chemistry Supervisor**

Qualifications Summary

Mr. Weimer has a BA degree in Chemistry and a minor in biology. He has been working in the environmental industry since 2015, when he started at Eurofins TestAmerica's Canton facility. He is currently responsible for managing department staffing, performance, quality and budgets within the General Chemistry Department.

Professional Experience

General Chemistry, Supervisor TestAmerica Canton — 2020 to Present

Responsibilities include scheduling employee and sample workload, performing Level I, II, and final QC review, managing department staff, including performance reviews and training, completing routine inventory and place orders for departmental supplies, supervising analyses using current EPA or other approved protocols, maintaining and troubleshooting department instrumentation, performing review, calculations and interpretations of sample data, and communicating with Project Management staff on project requirements.

Analyst – General Chemistry - TestAmerica Canton, OH — 2015 to 2020

Responsibilities included sample preparation, setup, calibration and analysis on General Chemistry instrumentation using current EPA protocol, maintaining and troubleshooting department instrumentation, preparing analytical standards and reagents, performing Level I QC review, completing necessary paperwork as part of sample analysis, including data review, calculations, data entry and data reporting.

Education

- ♦ Bachelor of Arts, Chemistry, Youngstown State University, 2015

Professional Training

- ♦ Ethics Training – Annual
- ♦ EH&S Training – Monthly
- ♦ TA Technical training: Including, but not limited to Calibration, Manual Integration, Supervisor training, etc.

Brian C. Graettinger
Laboratory Director

Qualifications Summary

Mr. Graettinger has been in the environmental laboratory industry since 1993. He has a Bachelor of Science degree in Biology from Briar Cliff College with minors in Chemistry and Philosophy. He began his career as a field sampling technician and understands the collection activities necessary to ensure quality samples in Environmental realm. He also has laboratory experience having worked in the wet chemistry area of the lab for two years. Mr. Graettinger enjoys all aspects of customer service and is a quick and eager learner who is willing to look at all sides of a problem to arrive at the best solution. He combines these passions and skills into his present duties as the Laboratory Director.

Professional Experience

Laboratory Director - Eurofins TestAmerica – 2021

Mr. Graettinger's responsibilities include the technical and administrative management of the analytical laboratory, including approximately 68 chemists, project managers and support staff. The functional groups of the facility include Shipping, Sample Control, Sample Preparation, Organic Chemistry, Metals, General Inorganic Chemistry, Project Management, Customer Service, QA/QC and Information Technology.

Operations Manager Industrial Hygiene/Client Service Manager/ Eurofins TestAmerica – 2013 to 2021

Mr. Graettinger managed the customer service and project management of field sampling, air sampling, and industrial hygiene projects. He is responsible for the daily supervision of the project management and IH departments.

Customer Services Manager - 2000 to 2012

Mr. Graettinger headed the customer services department and directed the management of field sampling, air sampling, and industrial hygiene projects. He was responsible for the daily supervision of the Quad Cities Customer Support Center, project management, login, IH, shipping and field services departments.

Project Manager/Coordinator – 1998 to 2000

Mr. Graettinger's responsibilities included coordination of client projects in the field of environmental and industrial hygiene with minimal guidance. He was also responsible for the completion of a variety of industrial and environmental sampling projects and industrial hygiene surveys.

Safety Coordinator - 1996 to 2008

Mr. Graettinger's responsibilities included conducting safety training and audits to ensure safe working environment for employees. He was also responsible for maintaining OSHA 300 log and investigating all safety related incidents and accidents.

Field Sampling Technician – 1993 to 1997

Mr. Graettinger's responsibilities included sample collection as an on-site technician for numerous asbestos and lead abatement projects. He also completed routine wastewater sampling projects and assisted on more complex sampling projects such as industrial hygiene surveys and landfill sampling projects. He also performed several laboratory analyses such as

oil & grease, suspended solids, dissolved solids, total recoverable petroleum hydrocarbons, and other related tests.

Education

- ◆ BS in Biology - Briar Cliff College – Sioux City, IA – 1991

Professional Affiliations

- ◆ American Industrial Hygiene Association (AIHA) National Member
- ◆ American Industrial Hygiene Association IA/IL Section
 - President 2005-2006
 - Board of Directors 2002-2004
- ◆ American Society of Safety Engineers
- ◆ Iowa Water Environment Association
- ◆ Iowa Groundwater Association

Professional Training

- ◆ Calculations Methods for Industrial Hygiene-AIHA, 1994
- ◆ AHERA Worker Training for Asbestos Abatement, 1994
- ◆ Elemental Industrial Hygiene Self Study Program-AIHA, 1997
- ◆ Industrial Ventilation-AIHA, 1997
- ◆ Classic Safety Distance Learning Course, 2002
- ◆ From Field to Files: Creating and Managing EH&S Documents and Records, 2004
- ◆ Laboratory Quality Assurance and Quality Control, 2004
- ◆ Drug & Alcohol Supervisor Training, 2004
- ◆ Advanced Concepts in Permit Required Confined Space Compliance, 2005
- ◆ Management and Supervisory Training, Hawkeye Community College, 2009
- ◆ Workplace LEAN Training, Hawkeye Community College, 2010
- ◆ Franklin Covey Leadership Training, 2010
- ◆ Hazardous Materials Air Shipper Certification, Lion Technology Inc., 2018
- ◆ Fundamentals of Finance and Accounting for Nonfinancial Managers, American Management Association 2021

Thomas Tjaden
Quality Assurance Manager

Qualifications Summary

Mr. Thomas Tjaden has been in the environmental laboratory industry since 2007. He is currently serving as Quality Assurance (QA) Manager at the Cedar Falls facility. He began his career with Eurofins TestAmerica as a preparation analyst in organic extractions, and has also held the position of a GC analyst for the laboratory's PCB/pesticide and industrial hygiene departments. He received his B.A. in Physics from Central College in Pella, Iowa, and also minored in Mathematics.

Professional Experience

Quality Assurance Manager – Eurofins TestAmerica – 2011 to present

The QA Manager has the responsibility and authority to develop, implement, and improve the quality system to meet the requirements set forth in the Corporate Quality Management Plan (CQMP). Responsibilities include: developing, approving, and maintaining the laboratory's Quality Assurance Manual (QAM) and Standard Operating Procedures (SOPs); arranging and managing proficiency testing (PT) samples; performing systems, data, special, and external audits with both clients and regulatory officials; maintaining laboratory accreditations, certifications, and quality control (QC records); submitting monthly QA reports; and assists in reviewing new work as needed. He has the final authority to accept or reject data, and to stop work in progress in the event that procedures or practices compromise the validity and integrity of analytical data. He is available to any employee at the facility to resolve data quality or ethical issues.

GC Analyst – Eurofins TestAmerica – 2008 to 2011

Analyzed sample extracts using GC-ECD techniques to identify and quantitate organochlorine pesticide compounds and PCBs as Aroclors in soil, water, wipe, and oil matrices. Also prepared and analyzed industrial hygiene samples collected on various media using GC-FID techniques.

Organic Extraction Analyst – Eurofins TestAmerica – 2007 to 2008

Performed organic extractions on samples using separatory funnel, sonication, and TCLP/ZHE techniques. Concentrated and packaged extracts to be analyzed by GC, GCMS, and HPLC instruments.

Education

- ◆ B.A. Physics – Central College, Pella, IA – 2007

Professional Training

- ◆ TestAmerica 40-hr Quality Assurance Management and Data Integrity Course, March 2011
- ◆ Employee Professional Development, April 2010

Derrick Klinkenberg
Organics Operations Manager

Qualifications Summary

Mr. Klinkenberg has been in the environmental laboratory industry since 2000. He began his career as an organic preparation analyst. He also has laboratory experience having worked in the organic chemistry area of the lab for two years and as Quality Assurance Manager for three years. Mr. Klinkenberg enjoys all aspects of customer service and is a quick and eager learner who is willing to look at all sides of a problem to arrive at the best solution. He combines these passions and skills into his present duties as the Organics Operations Manager.

Professional Experience

Organics Operations Manager – Eurofins TestAmerica - 2004 to Present

Oversees the customer service and project management of organic projects. Responsible for the daily supervision of Organic preparation, GC Semi-volatiles, GC-MS Semi-Volatile, GC Volatile, and GC-MS Volatile departments.

Quality Assurance Manager - 2001 to 2004

Managed the laboratory quality assurance program, including maintaining laboratory certifications, arranging analysis of laboratory Performance Testing Samples, monitoring and communicating regulatory information, and conducting training programs for laboratory staff.

Organics Preparation Analyst - 2000 to 2001

Performed organic extractions for samples to be analyzed using HPLC, GC, and GCMS. The extraction methods used were sonication, soxhlet, and separatory funnel.

Education

- ◆ B.S. in Chemistry – University of Northern Iowa – Cedar Falls, IA –2000
- ◆ Minor in Computer Information System – University of Northern Iowa – Cedar Falls, IA – 2000

Professional Training

- ◆ Management and Supervisory Training, Hawkeye Community College, 2009
- ◆ Drug & Alcohol Supervisor Training, 2009
- ◆ Laboratory Quality Assurance and Quality Control, 2001
- ◆ Ethics Training
- ◆ Hazardous Materials management (DOT)
- ◆ Hazardous Waste Management training

Lorna Bormann
Inorganics Operations Manager

Qualifications Summary

Ms. Bormann has been in the environmental laboratory industry since 2001. This experience includes knowledge of Safe Drinking Water Act regulations, Clean Water Act regulations and Resource, Conservation and Recovery Act regulations. Ms. Bormann has many years of direct experience with wet chemistry and metals analyses at the bench level. Ms. Bormann has a B.A. in Chemistry from the University of Northern Iowa. She places a strong emphasis on quality and both internal and external customer service. She is dedicated to ensuring clients receive the highest level of service and quality and also ensuring her analysts possess the skills to produce quality results and have a positive and dynamic environment to develop.

Professional Experience

Inorganics Operations Manager – Eurofins TestAmerica - 2009 to Present

Ms. Bormann's responsibilities include the directing of the wet chemistry and metals departments including analysts and analyses. She is responsible for the production of these departments from the writing of the test methods and hiring of employees to the quality/correctness of the final report provided to the clients. Ms. Bormann monitors changes in national and state environmental regulations to ensure Eurofins TestAmerica is compliant with all current and forth coming regulations including but not limited to those from the SDWA, CWA and RCRA.

Inorganic Chemist - 2001 to 2009**Education**

- ◆ B.A. in Chemistry – University of Northern Iowa –1999

Professional Training

- ◆ Leadership Training – Hawkeye Community College 2009
- ◆ Workplace Lean Training - Hawkeye Community College 2009
- ◆ Franklin Covey Training – Hawkeye Community College 2010
- ◆ Drug & Alcohol Supervisor Training 2011
- ◆ Ethics

Shirley Thompson
Customer Services Manager

Qualifications Summary

Ms. Thompson has a Bachelor of Arts in Science from the University of Northern Iowa. She has been in the laboratory industry since 1987. Ms. Thompson oversees analytical scopes for a variety of commercial and government projects, working both directly with the clients and through engineering consulting firms. She has experience meeting the criteria in a wide range of regulatory and state programs. Her experience includes laboratory project management; project pricing and proposal preparation; project methodology review.

Professional Experience

Customer Services Manager – 2021 to Present

Ms. Thompson heads the customer services department. She is responsible for the daily supervision of the project management team. Ms. Thompson utilizes and integrates managerial, technical and support personnel to ensure project execution. Coordinates with other professionals in the analysis and design of environmental testing projects.

Senior Project Manager – Eurofins TestAmerica - 2008 to 2021

Responsible for identifying work opportunities through both public and private sector clients and managing both the technical and non-technical aspects of a project. Acts as the primary liaison to the client throughout the course of a project. As Project Manager, Ms. Thompson interfaces with laboratory supervisors and senior analysts to ensure client requests are met and address any analytical difficulties. Monitor the progress of analytical activities for quality, timeliness, changes in scope of work, and cost.

Desktop Support - 2006 to 2008

Assisted in the conversion from a proprietary Laboratory Information Management System (LIMS) to a commercial LIMS. Provide local and remote support for hardware, software, networks, laboratory instrument's computers and the Laboratory Information Management System (LIMS). Construct Crystal Reports and SQL queries to extract data from the LIMS. Assist clients with web based access to laboratory data. Assist programmers with specifications and design details of electronic data deliverables for clients. Train end users on use of the LIMS. Troubleshooting issues with the LIMS.

Systems Analyst – 1999 to 2006

Provided local and remote support for the company's proprietary LIMS. Assisted local and remote sites in resolving hardware, software and network issues. Instrumental in setting up direct data downloading between laboratory equipment and LIMS to increase efficiency and reduce errors in reporting of data. Performed needs analysis and assist in the development of interfacing capabilities between LIMS database and MS Office applications for operations and financial management. Assisted in definition and testing of LIMS modifications. Assisted in LIMS database routine maintenance and local computer system backups. Assisted multiple locations with software asset management and licensing for Y2K conversion.

Quality Assurance Coordinator – National Environmental Testing - 1990 to 1998

Served as the Quality Manager for the laboratory. Responsible for the oversight of the company's quality program, documentation of procedures, maintenance of certifications and auditing operations. Dealt with customer complaints regarding data quality. Traveled to other

Shirley Thompson
Customer Services Manager

company locations and provided training for use the company's LIMS. Assisted in installation of software, at client's sites, to link them with the laboratory and provided support for clients using the software.

Organic Prep Technician – 1989 - 1990

Prepared and processed environmental samples for analysis in the lab. Served as back up GC analyst.

Laboratory Assistant – University of Northern Iowa Biology Research Complex 1986 - 1989**Education**

- ◆ B.A. Degree - Science, 1989 University of Northern Iowa, Cedar Falls, Iowa Completed degree requirements in three years

Professional Training

- ◆ Ethics Training
- ◆ Customer Service Training
- ◆ Lean Training for the Office Hawkeye Community College, 2010
- ◆ Certificate in Supervision, Hawkeye Community College, 2009

Qualifications Summary

Mr. Ogle has been in the environmental laboratory industry since 1999. He has a BS in Chemistry from the University of Cincinnati. His experience includes managing the day to day activities and operations of industry leading laboratories, design and implementation of process improvements, financial modeling, health and safety compliance, business development and client retention, and an overall commitment to quality assurance programs to ensure state and federal regulations compliance.

Professional Experience

Business Unit Manager/ Lab Director – Eurofins Environment Testing America - Present

Responsible for the overall management of Knoxville's full service and specialty analytical laboratories that include a staff of 56 chemists, scientists, and project managers. Duties include laboratory operations management; business development and business management; operating plan development and capital planning; acquisition(s) integration; human resource policy and benefits administration; strategic planning; consulting; proposal preparation and project management/execution; health and safety; hazardous waste management; quality assurance/quality control; procurement; presentations; and training. Other responsibilities include adherence to budgets, staff development and control, scheduling, client support/liaison, as well as profit and loss responsibility for the Knoxville facility.

Senior Director, Microbac Laboratories – 2017 to 2021

Oversee all operations of the Environmental and Food lines of business for Ohio, Kentucky, Tennessee, and West Virginia. Responsible for strategic business alignment, business turnaround, supply chain management, safety compliance, equipment standardization, best practices, continuous improvement, and change management.

- Implemented comprehensive strategy for business turnaround for underperforming locations.
- Consolidated capital equipment and analytical capability to maximize throughput and reduced operating costs by 14%.
- Unified the region by standardizing supplies, operating procedures, and implementing best practices that led to a reduction in supply costs by 4% and reduction in labor costs by 12%.
- Improved financial performance with a location seeing the highest profit margin in the past 3 years.
- Initiated and implemented a financial budget.
- Established a comprehensive employee review program and feedback model.
- Improved service delivery in which a location improved on time delivery to customers by 41%.
- Established a safety committee model throughout the region.
- Identify and Evaluate M&A opportunities.

ALS Environmental, Cincinnati, OH – 1999 to 2017

Director of laboratory services, ALS Environmental, Cincinnati, OH - 1/2013 to 7/2017

Responsible for all aspects of the business that included full P&L responsibility, day to day operations, financial modeling, program management and analysis, costs benefit analysis, resource allocation, budget modeling, problem solving, designed and implemented process improvements, business development, client satisfaction and retention, and oversaw all quality assurance programs to ensure compliance with state and federal regulations.

- Transformed the service delivery model which increased net profit by 53% the first year and surpassed a 10% year on year topline revenue growth for 3 consecutive fiscal years.
- Managed the organization that led to the facility exceeding budgeted revenue for 17 consecutive months.
- Managed the safety, radiation safety and quality assurance programs that lead to a successful completion of department of energy audit and a zero deficiency Ohio program audit.
- Designed a system that tracked actual, budgetary, and historical financial information that reduced forecasting times by half.
- Established a safety committee that effectively addressed all employee safety concerns
- Implemented a paperless capture system that eliminated paper and improved validation times by 11%.
- Developed an electronic data entry method that eliminated errors and reduced data entry times by 90%.
- Implemented a flexible work force to meet client expectations, increase capital equipment utilization and expand highly profitable expedited services while reducing employment costs.

Director of laboratory services, ALS Environmental, South Charleston, WV - 1/2012 to 1/2013

Responsible for all aspects of the business that included full P&L responsibility, day to day operations, financial modeling, costs benefit analysis, resource allocation, problem solving, designed and implemented process improvements, business development, client satisfaction and retention, and oversaw all quality assurance programs to ensure compliance with state and federal regulations.

- Implemented an internal due date which improved on time performance by 31%.
- Established a quality assurance program that led to state certification.

Operations Manager, ALS Environmental, Cincinnati, OH - 2/2012 to 1/2013

Responsible for all operations of the laboratory that included day to day operations, program management and analysis, resource allocation, problem solving, designed and implemented process improvements, and was the technical manager for the facility.

- Implemented an internal due date and increased on time performance by 14%.
- Developed a niche analysis program that utilized existing capital equipment and generated an additional \$80k annually.

Project Manager, ALS Environmental, Cincinnati, OH – 1/2011-2/2012

Responsible for the development and implementation of the project manager role, management of multi-scope projects, and served as a liaison between the facility and its customers. Ensured project requirements, budget goals, and timelines were defined and understood through continuous communication.

-
- Improved on time performance facility wide by 9% from role project manager role implementation.
 - Increased client retention by 6% by employing the single point of contact model.

Sample Receiving Manager, ALS Environmental, Cincinnati, OH 1/2010 to 2/2012

Responsible for all client services and sample receiving.

- Streamlined the login process and increase operational efficiency by 17%.
- Changed operational priorities and increased throughput by 13%.

Group Leader, DataChem/ALS Environmental, Cincinnati, OH 3/2003 to 2/2012

Led department personnel by providing support through planning, directing, and coordinating the operation of the laboratory.

- Provided consultation with clients concerning project data objectives.
- Trained junior staff in analytical protocols for operation and maintenance.
- Developed methodologies in gas chromatography and liquid chromatography that lead to new revenue generating streams.
- Maintained all instrumentation in gas chromatography and liquid chromatography that reduced instrument down time and eliminated the need for service contracts.

Chemist, DataChem Laboratories, Cincinnati, OH 4/1999 to 3/2003

Prepared and analyzed environmental and industrial hygiene samples using applicable SW-846, NIOSH, OSHA, EPA, and other methodologies.

- Reduced analytical runtime and increase sample throughput by 33%.
- Repurposed unused laboratory equipment into a revenue generating stream.
- Streamlined data acquisition with a multi instrument interface.
- Developed multi-component analytical methods that streamlined the analytical process and reduced processing time.

Education

- ◆ B.S. in Chemistry - University of Cincinnati, Cincinnati, OH (1999)

Professional Affiliations

- ◆ American Industrial Hygiene Association, Ohio Valley Chapter, member since 2012
- ◆ Analytical Accreditation Board, American Industrial Hygiene Association, 2015 - 2018

Donald C. Wasmund
Operations Manager

Qualifications Summary

Mr. Wasmund has been in the laboratory industry since 1973. He has concentrated expertise in chromatography and chromatographic methods development. He has experience in mobile laboratory work and on-site analytical project management. He has expertise in source air testing, physical testing and project management. He has developed processes for handling difficult matrices encountered in trial burn and related analytical activities. He has extensive experience in the preparation of documentation, quality assurance reviews of documentation, report writing, and preparation of responses to regulatory comments. In the area of gas chromatography, he has developed and performed procedures for the analysis of unspecified mass in stack gas samples, including volatile, semivolatile and nonvolatile fractions. He has developed techniques for collecting or handling refrigerant wastes containing hydrofluoric acid safely in order to analyze the wastes for volatile organic compounds, metals, halogen content and various physical parameters. Mr. Wasmund is currently manages the day-to-day operational activities of the laboratory.

Professional Experience

Operations Manager – Eurofins TestAmerica – 2018 to Present

Manage the day-to-day operational activities of the laboratory. Directly supervise Department Managers, and coordinate the efforts of multiple analytical operating groups. Ensure smooth communication between operations, client service and other business activities. Provide strategic and technical assistance to the Laboratory Director to evaluate, derive and implement longer term strategy for operational improvements in laboratory's processes and systems. Evaluate and recommend specific areas for product improvement and addition of products that are complementary to current laboratory offerings. Share responsibility with other laboratory managers for implementation of quality and safety programs.

Specific duties:

- ◆ Work with/through management groups, coordinates the work of analytical laboratory groups and assists in setting work priorities in an effort to minimize costs, scheduling conflicts or delays.
- ◆ Assist the Laboratory Director to evaluate equipment/methods and makes recommendations on the purchase and implementation of analytical equipment and/or methods.
- ◆ Assist with the generation of the associated Capital Expenditures information required to pursue equipment or analytical methodology improvements.
- ◆ Review Laboratory Loading Forecasts to evaluate resources, capacity and their ability to meet On Time Delivery (OTD) goals of greater than 90%.
- ◆ Work with management group to manage status reports for all current projects and initiatives.
- ◆ Work with technical resources to evaluate, review and develop standard operating procedures and prepares recommendations as the need arises for new or revised analytical methods.
- ◆ With the Client Services Organization and Laboratory Director, schedules and directs work to achieve established budget goals of the laboratory.

Donald C. Wasmund
Operations Manager

- ◆ Meets and conducts regularly scheduled operations meetings to resolve scheduling conflicts and delivery issues.
- ◆ Responsible for upholding and enforcing Company policies, including but not limited to, Quality, Safety, Standard Operating Procedures, Ethics and Harassment.

Consultant-Scientist, Wet Chem/Physical Testing Team Leader – 2009 to 2018

Responsibilities include: wet chemistry and physical testing, including ion chromatography, oxygen bomb combustion methods, ash content analysis, density, viscosity, particulate and related methods. He provides oversight of media production activities in support of source air clients. He is responsible for meeting quality and safety goals for the group. He performs specialty GC analysis in support of source air projects. He maintains client visibility and consults with clients regarding sampling and analytical issues.

Senior Analytical Consultant – Analytical Consulting Services Group – 1991 to 2009

Responsibilities include: supervising the physical testing group, managing a variety of analytical and field analytical projects including second-level review of data packages; performing field and in-house analysis for volatile and semivolatile organic compounds using gas chromatography equipment, including Total Organics testing of stack gas samples; trial burn support; developing Quality Assurance Project Plans (QAPJP), Sampling and Analysis Program Plans (SAPP), Standard Operating Procedures (SOP), and Facility and Soil Sampling Plan (FSP), and providing litigation support. Provided project management for the final validation and review of the data used for the Fernald Environmental Management Program (FEMP) OU-1 Remedial Investigation (RI) report, and actively participated in the writing of the FEMP OU-1 RI report. Conducted on-site analysis for volatile unspicated mass and/or in-house analysis for semivolatile and nonvolatile unspicated mass at the Kalama Chemical Company Hazardous Waste Boiler Trial Burn (1996), and several Lockheed Martin Idaho Technologies INEL WERF Trial Burns (1997-1998). Served as a laboratory technician at these trial burns, and also the Schenectady Chemical U-3 Boiler Trial Burn (1997) and the Aberdeen Dumps Site Trial Burn (1997). Provided analytical consulting services to Battelle Laboratories in support of the analytical program for metals testing of GB Ton Container contents at Deseret Chemical Depot (1998). Provided analytical consulting services regarding analytical method development for difficult matrices to LMITCO/SAIC at the Idaho National Engineering and Environmental Laboratory (INEEL) in support of the analytical program for stack testing of the New Waste Calciner offgas at the INTEC facility (1999). Author /editor of Quality Assurance Project Plans for Surrogate Trial Burns to be conducted at Anniston Chemical Disposal Facility for the IT Group and Westinghouse Anniston. Developed the Physical Testing program at Eurofins TestAmerica Knoxville.

Manager, Chromatographic Services – Enviropact, Inc. – Miami, FL – 1986 to 1990

Developed instrument configuration and departmental structure of chromatography department in Miami. Responsible for organics methods development and dissemination and training of staff at all Enviropact facilities. Recommended or selected most organics instrumentation purchased during this time period. Administered instrument service contracts for all manufactures and all facilities. Some consultation to ongoing projects.

Donald C. Wasmund
Operations Manager

Chromatography Training Specialist – Varian Associates, Instrument Group, Sugar Land, TX—1984 to 1986

Implemented factory training program at Varian's SugarLand facility. Trained new support staff, sales staff, and service personnel in chromatography. Participated in Association meetings as vendor presenter. Presented seminars in capillary gas chromatography and liquid chromatography. Performed field training of customers. Developed and presented workshops. Resolved difficult applications or instrumental problems.

Instructor – Durham Technical Institute – Durham, NC – 1981 to 1982

Part time instructor of general chemistry, basic mathematics, introductory algebra, and applied mathematics.

Analytical Chemist – Florida Department of Agriculture, Tallahassee, FL – 1973

Senior ranking employee in remote laboratory (Bell Glade, Florida). Analyzed fats and vegetables for pesticide residues, supervised a technician and assistant who prepared extracts. Determined pesticide content by gas chromatography.

Education

- ◆ B.S. Chemistry—John B. Stetson University, Deland, FL—1973
- ◆ All Requirements toward Ph.D. Except Dissertation—Department of Chemistry, Duke University, Durham, NC—1974 to 1980

Publications

- ◆ P. B. Carswell, D. C. Wasmund, and W. C. Anderson, "The Application of Traditional Data Quality Objectives (DQOs) to the Measurement of Stack Gas Unspeciated Mass: Techniques and Observations", presented at the 1999 International Conference on Incineration & Thermal Treatment Technologies (IT3), published in Elsevier Science Ltd., Waste Management Journal 20 (5-6) (2000) pp. 385-394.
- ◆ P. B. Carswell, D. C. Wasmund, and W. C. Anderson, "The Derivation of Procedurally Corrected Method Detection Limits for Use in Source Emission Risk Assessment Evaluation", presented at the 2001 International Conference on Incineration & Thermal Treatment Technologies (IT3).
- ◆ P. B. Carswell, D. C. Wasmund, and W. C. Anderson, "Preparation of Incinerator Organic Waste Feed Materials for the Determination of Low-Level Total Metals Content to Meet Compliance Data Quality Objectives", presented at the 2003 International Conference on Incineration & Thermal Treatment Technologies (IT3).

Qualifications Summary

Mr. McGee has been in the environmental industry since 1989. Mr. McGee is the Quality Assurance Manager for the Knoxville Laboratory and is responsible for the development and management of the laboratory's quality assurance program. His previous experience is divided into two distinct areas of expertise: a laboratory based chemist and a field analytical chemist assigned to on-site or mobile laboratory projects. As chemist, Mr. McGee has performed GC volatile, GC semi-volatile and GC/MS semi-volatile SW 846 methods and CLP protocol. As a field analytical chemist, Mr. McGee has been involved in the set-up of mobile laboratories, method development for on-site analyses, sample analysis, and report generation. Mr. McGee has also performed data validation on radiochemical, GC, and GC/MS data.

Professional Experience

Quality Assurance Manager – Eurofins TestAmerica – 2012 to Present

Responsible for assuring and improving quality within facility operations. Specific duties include:

- ◆ Recommending resolutions for ongoing or recurrent nonconformances within the laboratory.
- ◆ Supervising and providing guidance to laboratory QA staff.
- ◆ Suspending processing when quality requirements are not met.
- ◆ Performing QA assessments of the laboratory.
- ◆ Coordinating audit activities at the laboratory.
- ◆ Providing timely responses to audit findings and performance evaluation sample deficiencies through cooperative effort with facility operations representatives.
- ◆ Closing findings of QA audits.
- ◆ Providing training for the laboratory on issues pertaining to the QA program.
- ◆ Assisting in preparation of and approving Quality Assurance Project Plans.
- ◆ Maintaining certification and accreditation programs.
- ◆ Maintaining controlled quality documents.
- ◆ Preparing monthly quality reports to management.

Chemist, GC/MS Laboratory – 2005 to 2012

Primary responsibilities include:

- ◆ GC/MS analysis and interpretation of Semi-volatiles by Method 8270C and TO-13A for soil, water, air, and sediment matrices
- ◆ Routine maintenance of GC/MS instrumentation\
- ◆ Inventory of standards for the GC/MS group
- ◆ Application of laboratory quality assurance/quality control systems

Chemist, GC/HPLC Laboratory – 1996 to 2005

Primary responsibilities include:

- ◆ PCBs and pesticide residue analysis

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- ◆ Preparation of stock and working standards, sample extract cleanups, and GC maintenance
 - ◆ Different aspects of sample preparation and analysis of samples for GC analysis of priority pollutants
 - ◆ Preparing filters for analysis of air particulate contaminants
 - ◆ Application of laboratory quality assurance/quality control systems

Chemist – 1994 to 1996

Primary responsibilities include:

- ◆ ASC Chemist - Assisted various laboratories during periods of heavy sample loads. Assisted exclusively in GC-Semivolatile areas by performing GC/ECD analysis of Pesticides/PCB's and Herbicides using CLP and non-CLP methodologies.
- ◆ Requantification projects – Quality Assurance Audit/Review 95-1 - responsible for the review and reporting of GC volatiles using Methods 8010 and 8020
Exxon Project - responsible for the review and reporting of GC pesticide parameters using CLP 390 protocol.
Freshkills, NJ Project - responsible for the review and reporting of GC/MS volatile parameters using Methods 8240 and 8260.

Analyst II - GC/Special Projects – Ecotek LSI, Atlanta, Georgia – 1992 to 1994

Primary responsibilities included:

- ◆ GC/ECD analysis of Pesticide/PCB's and Herbicides using CLP and non-CLP Methods 8080 and 8150. GC/ELCD and GC/PID analysis of volatile organics using Methods 8010 and 8020. Routine maintenance of GCs and laboratory computer system.
- ◆ Reprocessing and validation of all radiochemical parameters for a major company client, and set up of mobile on-site laboratories to perform analysis on restricted samples.

Analyst II – OSP - Ecotek LSI, Atlanta, Georgia – 1990 to 1992

Primary responsibilities include:

- ◆ FTIR analysis of total petroleum hydrocarbons using Methods 413.2 and 418.1. GC screening of samples to determine applicable extraction procedures. GPC clean-up of soils for CLP samples and the training of new analyst's in extraction procedures for pesticides, BNAs and TPHs

Analytical Chemist - ZEP Manufacturing, Atlanta, GA – 1989 to 1990

Responsibilities included:

- ◆ Analysis of company and competitive unknowns through the use of wet chemical methods, GC, and IR. Member of the Laboratory Safety Committee for Analytical Services.

Education

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- ◆ B.S. in Chemistry - Eckerd College, St. Petersburg, Florida, 1989

Qualifications Summary

Mr. Wiles has been in the environmental laboratory industry since 1991, with extensive experience in volatile and semi-volatile organics analysis by GC/MS using EPA methods for samples of various matrices, and GC/MS data review. Specialty experience includes TO-14A/TO-15, TO-13, and VOST analysis and review.

Professional Experience

Technical Director – Eurofins TestAmerica - 2017 to present

Provide technical support to operations.

- ◆ Troubleshooting method or process problems.
- ◆ Maintain in-house testing documentation.
- ◆ Method development.
- ◆ Process improvement for existing methods/procedures.
- ◆ SOP review/editing for all groups.
- ◆ Data review checklist preparation/revision.

PM Support

- ◆ Consult with PMs regarding analytical techniques and capabilities, narrative issues, report issues, project setup.
- ◆ Investigate issues raised by clients, PMs, etc. to find root cause and implement corrective action and proper response.

QA Support

- ◆ Maintain LODV/LOQV schedule – Create projects, monitor MDL schedule and login new jobs each month, monitor progress, prepare control charts, evaluate results (control charts and Denver software), modify spike levels and MDLs as needed.
- ◆ Provide input for corrective actions and QA findings.
- ◆ Audit support where needed.
- ◆ Provide guidance/input for QA procedures.
- ◆ Review training documentation.
- ◆ Back-up for TALS reference data.

TALS Operation Support

- ◆ Maintain Decoder Ring.
- ◆ Maintain DRC→NCM (Autotext) system.
- ◆ Training for analysts
- ◆ Review NCM's for accuracy and presentation.

GC/MS Department Manager - 1998 to present

Duties include:

- ◆ Planning, scheduling and supervision
- ◆ Reviews and interprets results

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- ◆ Recommends methods and/or operating procedure changes
 - ◆ Develops and reviews Standard Operating Procedures (SOP's)
 - ◆ Sets standards for and monitors productivity
 - ◆ Responsible for H&S and QC practices
 - ◆ Controlling costs
 - ◆ Instrumentation and upgrades
 - ◆ Instrument maintenance/troubleshooting/repair and inventory
 - ◆ Provided training and support to other Eurofins TestAmerica facilities of Entech autosampler/concentrator for TO-15 analysis
 - ◆ Provide support for QA, EH&S, project management, operations manager and lab director
 - ◆ Communicate with clients and validators to ensure project success and resolve technical issues
 - ◆ Analyst training
 - ◆ Coordinate cylinder standard purchasing and evaluation with other facilities
 - ◆ TO-15 labs to maintain ISO-17025 certification

Chemist II & III - 1994 to 1998

Responsibilities included: Operate Finnigan INCOS 500 Quadrupole Mass Spec, GC/MS system maintenance, volatile organics analysis, data verification, and report generation using EPA/CLP protocols. Other duties include data archival, sample tracking, and sample storage.

Chemist - 1993 to 1994

Responsibilities included: GC/MS Operations Reporting Group using Finnigan FORMASTER version 3.3 database for EPA CLP 3/90 and 2/88, Appendix IX, SW846, 524.2, TCLP, 624, OLV01, OLM01, OLM01.8, and control charts. Implementing FORMASTER in the GC Pesticides/Herbicides department, and Metals department. Member of IT Health and Safety Council Committee.

Chemist - 1993 to 1993

Responsibilities included: GC operator in Volatiles department analyzing soil, water, and TCLP extracts via EPA SW-846 methods 8010, 8015, and 8020; EPA methods 601 and 602. Tennessee DRO/GRO, Washington (State) DRO/GRO. Operated Varian GC 3400, 3600, 3700 and HP GC model 5890. All GCs were equipped with a Tekmar LSC 2000 & ALS 2016. Performed daily routine preventative maintenance on GCs, P&T systems and detectors, which include FID, PID, and HECD. Maintained rigorous QC program through SW-846 and I.T. SOP, including validation and MDL studies. Worked independently on second shift. Responsible for daily QC and recordings of all balances.

Laboratory Technician, Technical Laboratories Inc., Chattanooga, TN. April 1991 to June 1993

Responsibilities included: Operated Perkin Elmer GC models 900, 2000, 3920, and 8500 equipped with FID, ECD, TCD and GC/MS-Ion trap. Perkin Elmer Infrared Spectrophotometer

models 727 and 599. Prepared, extracted and analyzed soil, air, water and oil for VOC, BTEX, pesticides, herbicides, PCB, hydrocarbons, base/neutral and acids, fire debris for accelerants, and transformer oils for combustible and noncombustible gases. Used EPA SW-846 8000 series methodology, EPA 500 and 600 series and 418.1. Experienced in non-routine special analysis. Used pyrolysis to identify unknowns. Also used Tekmar P&T. Experience in industrial hygiene/air monitoring for asbestos (via NIOSH 582), metals, total and respirable dust, and organics using Gillian personal air samplers. Used a phase-contrast microscope for asbestos analysis.

Student Teacher, West Wilkes High School, North Wilkesboro, NC. January-March 1990

Education

- ◆ Appalachian State University, B.S. in Mathematics, Minor Physics; 1990
- ◆ Wilkes Community College, Associate in Science, 1987
- ◆ Chattanooga State Technical Community College, 1993
- ◆ Mississippi State Community College, 1996

Professional Training

- ◆ Skill Path Seminars
 - ◆ Managing Multiple Projects Objectives and Deadlines
 - ◆ Coaching and Teambuilding Skills for Managers and Supervisors
 - ◆ How to Become a Better Communicator
- ◆ Agilent's How-To and Economic Benefits of Fast Semivolatiles for GC/MS
- ◆ Restek's Comprehensive Capillary Gas Chromatography Seminar
- ◆ University of Tennessee 16-Hour DOT Hazardous Waste Generator Training (1997)
- ◆ University of Tennessee One-Day Industrial Waste Basics Workshop (1998)
- ◆ TestAmerica Ethics Training
- ◆ TestAmerica Leadership Training
- ◆ TestAmerica Health and Safety Training

Qualifications Summary

Ms. Davidson has been in the analytical laboratory industry since 1987 and is an experienced analytical chemist and special organics laboratory manager with extensive GC and GC/MS and GC/HRMS systems. She provides technical knowledge for identifying and determining dioxin/polychlorinated biphenyl (PCB) content in the samples using routine and non-routine methods, while adhering to EPA regulations.

Professional Experience

Specialty Organics Manager – Eurofins TestAmerica - 2004 to Present

Ms. Davidson supervises the production activities of the Specialty Organics Analysis Laboratory. Responsibilities include review of analytical data/reports, training new personnel in isotope dilution, high-resolution mass spectrometric methodologies. Responsible for the analyses of dioxins and polychlorinated biphenyls (PCBs) using routine and non-routine GC/MS techniques and for the interpretation and reporting of the data. Also, involved in non-routine special analytical projects utilizing GC systems.

Analytical Chemist – 1989 to 2004

Responsible for the analysis of compounds by high resolution GCMS, the operation and maintenance of high resolution GCMS systems, interpretation of chromatographic and mass spectrometer data, data review and reporting, and sample tracking and continuous improvements in laboratory safety and product quality.

Quality Control Analyst - Western Technical Services, Knoxville, TN - 1989**Quality Control Analyst - Great Lakes Chemical Company, Newport, TN – 1987 to 1989****Education**

- ◆ B.S. in Biochemistry- North Carolina State University, Raleigh, NC (1987)

Professional Affiliations

- ◆ American Chemical Society

Qualifications Summary

Ms. Lowe has extensive laboratory and management experience since 1992. She earned her Bachelor of Science degree in Chemistry at the University of Illinois. Ms. Lowe is proficient in the operation and troubleshooting of a variety of laboratory equipment and instrumentation and is experienced in managing production for a service-oriented industry in a regulatory environment. Ms. Lowe has a thorough understanding of operational, quality assurance, personnel and financial issues.

Professional Experience

Laboratory Director/Business Unit Manager – Eurofins TestAmerica – 1997 to present

Ms. Lowe's responsibilities include all aspects of the administrative management of the analytical laboratory assuring that the quality of data is acceptable. The functional groups of the facility include QA/QC and Information Technology, GC/MS Volatiles, GC/MS Semivolatiles, GC Semivolatiles, Metals, Wet Chemistry, Organic Prep and Sample Control/Sample Preparation. Ms. Lowe also coordinates the laboratory operations with Eurofins TestAmerica's Customer Service Organization ensuring that client deadlines are met. Her other responsibilities include adherence to budget, staff development and control, quality assurance and quality control, scheduling, client support/liaison, as well as profit and loss responsibility for the Pittsburgh facility. In addition, she is responsible for oversight of the Environmental Health and Safety Program. She also has oversight of service centers in Virginia Beach, VA and Baltimore, MD.

Marketing Manager – 1996 to 1997**Department Manager I– 1994 to 1996****Analyst – 1992 to 1994****Education**

- ◆ B.S. Chemistry – University of Illinois -1992

Qualifications Summary

Mr. Matko has extensive laboratory and management experience in environmental laboratories since 1988. He received a Bachelor of Science degree in Engineering from Pennsylvania State University and has a broad range of laboratory experience including laboratory, project and operations management, preceded by bench experience in the area of pesticides/PCBs and herbicides analyses.

Professional Experience

Technical Director – Eurofins TestAmerica – 2010 to present

Mr. Matko's responsibilities are multifaceted. They range from solving technical problems in the laboratory including troubleshooting instruments and developing / modifying methods as needed to meet customer requirements to performing sample analyses, data write up, and final data review. Mr. Matko consults with clients, regulators, and others regarding technical aspects of analyses, suggests and implements process improvements to maximize productivity, save costs, and decrease turnaround time, and develops / amends department SOP's. He participates in TestAmerica's best practice process. This process has lead the evaluation and adaptation of new technologies and methodologies, and non-routine analysis as required to meet the needs of current long-term clients or as a means to capture new clients in support of business development efforts. Mr. Matko also manages technical projects, and prepares reports and recommendations for senior laboratory management. He sets up and conducts training for analyst and technicians, mentors associates, and assists in the development of health and safety protocols. Mr. Matko investigates issues raised by clients, QA, sales, and other departments to find root cause and implement corrective action and proper response, and contributes technical information and evaluation for deciding major new equipment purchases and capital expenditures.

Laboratory Director – 2007 to 2010**Operations Manager – 2005 to 2006****Project Manager – 2004 to 2005****Group Leader, GC / Organic Prep – 1996 to 2004****Team Leader, GC Semivolatiles – 1995 to 1996****Chemist, GC Semivolatiles – 1989 to 1991, 1993 to 1995****Chemist, GC Semivolatiles – Chester Labnet – 1991 to 1993****Laboratory Technician – IT Analytical Services - 1988 to 1989****Education**

- ♦ B.S. Chemical Engineering– Pennsylvania State University – State College, PA - 1985

Qualifications Summary

Ms. Ruyechan is an experienced organic and classical chemist with experience in the environmental industry since 1986. She has a B.S. in Biology from the University of Pittsburgh and training in bulk asbestos microscopy from the McCrone Institute. Ms. Ruyechan has served as a lead chemist in gas chromatography / mass spectrometry, gas chromatography, and general chemistry. She currently manages the inorganic department operations.

Professional Experience

Inorganics Department Manager – Eurofins TestAmerica – 2012 to Present

Ms. Ruyechan is responsible for management of all aspects of the inorganics department. She manages workload and schedules operations. She is responsible for scheduling preventive maintenance, investigating and resolving technical problems, purchasing supplies and equipment, reviewing and releasing analytical results.

Department Manager Report Production – 2007 to 2012

Ms. Ruyechan's responsibilities included coordinating with project managers and prioritizing projects on a daily basis, reviewing reports generated by the laboratory, and preparing analytical reports including hardcopy, EDD, and CD deliverables.

Group Leader, Report Production - 2000 to 2007**Group Leader, General Chemistry - 1997 to 1999****Project Manager - 1996 to 1997****Group Leader, Organics - 1995 to 1996****Team Leader, Data Processing / Delivery – 1994 to 1995****Group Leader, Organics – 1991 to 1994****Group Leader, General Chemistry – IT Corporation Analytical Services - 1989 to 1991****Analyst – 1987 to 1989****Bacteriologist – NUS Corporation – Pittsburgh, PA – 1986 to 1987****Education**

- ♦ B.S. Biology – University of Pittsburgh – Pittsburgh, PA - 1984
- ♦ Bulk Asbestos Microscopy – McCrone Institute – Pittsburgh, PA – 1988
- ♦ Microbiology course – Community College of Allegheny County - 1987

Sharon A. Bacha
Organics Department Manager

Qualifications Summary

Ms. Bacha oversees the operation of the GC/MS Volatile, GC/MS Semivolatile, GC groups and Organic Prep. She has extensive experience in organics analysis, volatiles and semivolatiles by GC/MS using current EPA CLP and SW-846 methods for samples of various matrices, and GC/MS data review. Ms. Bacha has a Masters in Forensic Sciences from Virginia Commonwealth University and a Bachelor of Arts in Chemistry from Washington and Jefferson College. She is knowledgeable of various computer programs such as Target Data System, Chrom, LIMS, Windows 2000 and Word. She has been in the environmental laboratory industry since 1987.

Professional Experience

Organics Department Manager – Eurofins TestAmerica – 2012 to present

Ms. Bacha is responsible for the overall operations of the Organics laboratories. These responsibilities include but are not limited to meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. She serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. Ms. Bacha also makes recommendations to laboratory management in regard to process improvements.

Supervisor - 2004 to 2012

Ms. Bacha was responsible for the overall operation of the GC/MS Volatile, GC/MS Semi-volatile and the GC Semivolatile areas. Her duties include planning, scheduling and supervising all organic analyses. In addition, Ms. Bacha is responsible for daily technical oversight for the organic groups including instrumentation maintenance, inventory management, data review, QC implementation, H&S, method development and training. She serves as the GC/MS technical contact/ resource to analysts, project managers and clients.

Department Manager – 1996 to 2004**Chemist, GC/MS Semivolatiles – 1994 to 1996****Team Leader, GC/MS Volatiles and GC/MS Semivolatiles – 1991 to 1994****Team Leader, GC/MS Semivolatiles – 1987 to 1991**

Education

- ◆ M.S. Forensic Sciences – Virginia Commonwealth University - 1987
- ◆ B.S. Chemistry – Washington & Jefferson College -1985

Andy Johnson
Manager of Project Managers

Qualifications Summary

Mr. Johnson obtained a B.S. in Business Management from Indiana University, a B.S. in Biology from Elmhurst College and an M.B.A. from Loyola University. Mr. Johnson has worked in the environmental laboratory industry since 1999 with an extensive background in customer service and project management.

Professional Experience

Manager of Project Managers – Eurofins TestAmerica Pittsburgh – 2020 to Present

Mr. Johnson manages the Project Management Group and provides support for in house projects in both technical and administrative roles. Daily activities include working with the laboratory department managers to prioritize their workload to meet client TAT commitments, evaluating proposals for prospective and ongoing clients and acting as liaison for inquiries, complaints, and requests between project managers and clients.

Manager of Project Managers – TestAmerica Nashville – 2006 to 2020

Client Service Manager – 2003 to 2006

Project Manager – 1999 to 2003

Education

- ◆ B.S. in Biology – Elmhurst College, Elmhurst, IL (1998)
- ◆ M.B.A. in Finance – Loyola University, Chicago, IL (1994)
- ◆ B.S. in Business Management – Indiana University, Bloomington, IN (1987)

Professional Training

- ◆ Customer Service Training
- ◆ Ethics Training

Qualifications Summary

Mr. Kirkland has a B.S. in Chemistry from Savannah State College, Savannah, GA. He has been in the environmental laboratory industry since 1991. His experience includes work as an extraction chemist, as well as a mass spectral chemist. He possesses an extensive background of environmental testing, environmental methods, and program knowledge to include RCRA, CWA, and SDWA. He also has an exceptional ability to manage laboratory resources to accomplish client environmental requirements. Mr. Kirkland is an integral part of the core knowledge base at Eurofins TestAmerica Savannah.

Professional Experience

Laboratory Director – Eurofins TestAmerica – 2017 to Present

Mr. Kirkland's responsibilities include the technical and administrative management of Savannah's full service analytical laboratory which includes approximately 80 chemists, scientists, and administrative personnel. His other responsibilities include adherence to budget, quality assurance and quality control, scheduling, client support/liaison, strategic growth of the Savannah facility, as well as profit and loss for the laboratory.

Manager of Project Management – 2013 to 2017**Director of Project Management – 2005 to 2013****Project Manager – 2002 to 2005****Technical Manager – 1999 to 2002****Semivolatile Organics Department Manager – 1996 to 1999****Extractions Department Manager – 1994 to 1996****Chemist – 1992 to 1994****Analyst – 1991 to 1992****Education**

- ◆ B.S. Chemistry – Savannah State College, Savannah, GA (1989)

Professional Training

- ◆ Florida Groundwater Conference – University of Florida - presenter on the holding times and sample preservation as it relates to potable water.
- ◆ Columbia Groundwater Conference – West Columbia, SC - presenter on analytical methods, holding times, and sample preservation as it relates to groundwater.
- ◆ Client Services Training, Loring, 2004

Qualifications Summary

Ms. Chamberlain has a B.S. in Microbiology from the University of Georgia; Athens, GA. Ms. Chamberlain has been in the environmental laboratory industry since 1993. Her experience includes operations management, Environmental Health and Safety Coordinator and Technical Director for the Savannah laboratory. She is dedicated to maintaining productivity and delivering on time results. Ms. Chamberlain has an exceptional ability to provide leadership to her department through a hands-on approach.

Professional Experience

Quality Assurance Manager – Eurofins TestAmerica – 2019 to Present

Kimberly Chamberlain is the new Quality Assurance Manager. Ms. Chamberlain experience started in 1993 in the environmental laboratory industry, which includes management experience and strong analytical skills. She also has a strong understanding of the laboratory's Quality Systems and procedures.

Technical Director and Environmental Health & Safety Coordinator - 2016 to Present

Ms. Chamberlain serves as a technical resource within Savannah laboratory. She is responsible for process and technology review. In addition, she researches, develops and implements new analytical methods and recommends process improvements to existing technologies.

Department Manager, Extractions and Shipping/Receiving – 2015 to 2019

Ms. Chamberlain was responsible for all aspects of the Extractions lab and Shipping/Receiving within the lab. As such, she was responsible for efficient production methods as well as personnel, training, and implementation of SOPs and QA standards and practices for the groups. Her duties include oversight of data reporting, turnaround time management, personnel issues, maintenance of instrumentation, SOPs, and approval of purchase of laboratory supplies. In addition, she is responsible for process and technology improvements. Daily operations include client satisfaction, financial management, human resources, health and safety program compliance, and quality assurance plan compliance.

Operations Manager, Organics - 2011 to 2015

Technical Manager - Extractions, Semivolatile Mass Spec and Volatiles - 2013 to 2015

Department Manager, Semi-volatile Mass Spectrometry - 1998 to 2011

Analyst - 1993 to 1998

Education

- ◆ B.S. Microbiology – University of Georgia, Athens, GA (1993)

Professional Training

- ◆ Practical Environmental Chromatography (1999)
- ◆ Agilent GC Training (2010)

Qualifications Summary

Ms. Geiger has been in the laboratory testing industry since 2015. She has a MA in Agriculture from Auburn University and a B.S. in Environmental Science from University of Phoenix. As Manager of the Generals department she is responsible for efficient production methods, process and technology improvements as well as client satisfaction, health and safety program compliance and quality assurance plan compliance.

Professional Experience

General & Metals Department Manager – Eurofins TestAmerica – 2019 to present

Ensure departmental compliance with SOPs and the QA Manual, adherence to applicable safety guidelines, maintaining supplies, and meeting performance objectives and deadlines. Manage staff by overseeing their hiring, training, performance, etc. Serve as a resource for analysts in regards to troubleshooting, career development, scheduling needs, etc. Develop and implement practices to maximize efficiency and cost controls.

General Department Supervisor – TestAmerica – 2018 to 2019

Ensure departmental compliance with SOPs and the QA Manual, adherence to applicable safety guidelines, maintaining supplies, and meeting performance objectives and deadlines. Manage staff by overseeing their hiring, training, performance, etc. Serve as a resource for analysts in regards to troubleshooting, career development, scheduling needs, etc. Develop and implement practices to maximize efficiency and cost controls.

Analyst – TestAmerica – 2015 to 2018

Performed environmental testing, using EPA approved methods. Worked in the Extractions department with Oil & Grease (1664A) then moved to General's department. Methods certified to run and analyze, Colormetric (2120B, 110.2), Phosphorus (365.4), Odor (SM 2150B), Oxygen Bomb (5050), BTU, Ammonia (350.1, SM4500), Total Kjeldahl Nitrogen (351.2), Distilled Ammonia (351.2), Chloride (325.2, SM4500 Cl E), Sulfate (9038) & Phenolics (420.1).

Preschool Teacher, The Sanctuary Child Learning & Development Center – 2013 to 2015

Supervised children, created and followed lesson plans and completed daily reports.

Education

- ◆ Master Agriculture – Auburn University - 2019
- ◆ B.S. Science – University of Phoenix – 2015
- ◆ Associates Early Childhood Development – University of Phoenix - 2013

David B. Mullis
Semi-Volatiles – GC, GC/MS
Department Manager

Qualifications Summary

Mr. Mullis has worked in the environmental laboratory industry since 2006, as an analytical analyst and served as a quality assurance manager for 3 years. He is well versed in many different inorganic and organic environmental analysis methods, with a main expertise in gas chromatography and mass spectrometry methods and instrumentation.

Professional Experience

Semi-Volatiles GC, GC/MS Department Manager – Eurofins TestAmerica – 2018 to present

Responsible for the overall operations of a specific laboratory area. These responsibilities include but are not limited to meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. Serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. Make recommendations to laboratory management in regard to process improvements.

Analyst IV - 2016 to 2018

Performed GC/MS and GC analysis on volatile and semi-volatile environmental samples. Proficient with numerous organic environmental methods (including 8270/8260, 625/624, 548.1, 525.2, and RSK). Interpreted and reported results daily within the LIMS system and worked with project managers to ensure data was reported to clients in a timely manner. Extensive knowledge of operation and maintenance of purge and trap, mass spectrometry, and gas chromatography instrumentation.

Quality Assurance Manager/Analyst – Avery Laboratories and Environmental Services - 2006 to 2015

Managed the quality assurance department for 3 years. Maintained up-to-date records of product technical data sheet and certificate of analysis. Regularly reviewed and updated the standard operating procedures for each test performed in the laboratory. Conducted both qualitative and quantitative analysis on environmental samples. Employed chromatography and spectrophotometry techniques in the analysis of liquid and soil samples. Drafted and reviewed reports on all test results.

Education

- ◆ B.S. Biological Sciences -University of Georgia –Athens GA-2005

Professional Training

- ◆ Ethics
- ◆ Leadership Training

Qualifications Summary

Mr. Proctor has a B.S. in Chemistry from Centre College. He has been in the environmental laboratory industry since 2011. His experience is focused on Organics analytical sample analysis. He is an extremely detail oriented individual who is dedicated to maintaining productivity and delivering on time results. Mr. Proctor also has experience maintaining and troubleshooting a variety of instruments.

Professional Experience

Volatile Organics & HPLC/IC Department Manager – Eurofins TestAmerica – 2017 to Present

Mr. Proctor is responsible for all aspects of the Volatile Organics and HPLC/IC labs within the laboratory. As such, he is responsible for efficient production methods as well as personnel, training, and implementation of SOPs and QA standards and practices for these lab groups. His duties include oversight of data reporting, turnaround time management, personnel issues, maintenance of instrumentation, SOPs, and approval of purchase of laboratory supplies. In addition, he is responsible for process and technology improvements. Daily operations include client satisfaction, financial management, human resources, health and safety program compliance, and quality assurance plan compliance

QC Lab Lead – Johnson Matthey Process Tech. – 2014 to 2017**QC Lab Analyst – Johnson Matthey Process Tech. – 2013 to 2014****Analyst II – TestAmerica Savannah – July 2011 to Dec. 2013****Education**

- ◆ B.S. Chemistry – Centre College - 2011

Rhonda Ridenhower
Interim Laboratory
Director/Client Service Manager

Qualifications Summary

Ms. Ridenhower has a B.S. Biology Science from Southern Illinois University, Edwardsville, IL. She has been in the environmental laboratory industry since 2000, specializing in Radiochemical analyses. She is the principal client contact for project coordination, project quotation, project tracking and report review. She is responsible for laboratory project management staff activity, including project assignment, forecasting revenues and workloads, and is a liaison between the laboratory account executives and the client. Ms. Ridenhower was previously the Department Manager of the radiochemistry department.

Professional Experience

Interim Laboratory Director

Eurofins TestAmerica – 2021 to present

Ms. Ridenhower is responsible for the technical and administrative management of St. Louis's laboratory which includes chemists, scientists and project managers. Other responsibilities include, staff development, quality assurance and quality control, scheduling, managing report turn-around time and working as a client support/liaison. Ms. Ridenhower conducts laboratory operations in accordance with established company, client and regulatory requirements.

Client Service Manager (formerly called Manager of Project Managers)

Eurofins TestAmerica – 2011 to present

Ms. Ridenhower's responsibilities include principal client contact, project coordination, project quotation, project tracking and report review. She is responsible for laboratory project management staff activity, including project assignment, forecasting revenues and workloads, and is a liaison between the laboratory account executives and the client. Responsibilities include but are not limited to meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. She serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients.

Department Manager, Radiochemistry – 2006 to 2011

She was responsible for the overall operations of the Radiochemistry laboratory area. These responsibilities included meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. Ms. Ridenhower served as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. She made recommendations to laboratory management in regard to process improvements.

Supervisor, Radiochemistry 2003 to 2006

Provided technical and operational support to Radiochemistry count room (analysis) while participating in daily sample production. Responsibilities included scheduling and prioritizing work tasks, training, problem solving, implementing new procedures and methods, analyzing samples, reviewing and validating data and completing reports.

Analyst – 2000 to 2003

Rhonda Ridenhower
Interim Laboratory
Director/Client Service Manager

Prepared and analyzed environmental samples using Alpha spectroscopy, Gamma spectroscopy, Liquid Scintillation counter, and Gas Flow Proportional counter by routine EPA and DOE methodologies and complex testing according to client specific statements of work. Validates and reviews data for accuracy through Level I reviews. Uploaded laboratory data into reporting system to generate data packages for delivery to clients.

Education

- ◆ B.S. Biology Science –Southern Illinois University Edwardsville III (2000)

Professional Training

- ◆ Ethics Training
- ◆ Leadership Training

**Terry Romanko
Technical Director**

Qualifications Summary

Mr. Romanko has a B.S. in Chemistry from Rice University. He has been in the environmental chemistry field since 1988 specializing in radiochemistry. Mr. Romanko has worked in quality control, research, development and production within the pharmaceutical, radiochemical and analytical industries. He oversees all technology operations for the St. Louis Laboratory, including direction and strategy. He has worked closely with Quality Assurance groups to ensure data/document reliability, including the set-up of systems, methods, batch records, procedures, specifications and validation protocols. He also has experience as Radiation Safety Officer. His responsibilities include ensuring that all Technology actions, plans and expenditures support Eurofins TestAmerica goals and directives. As a principal technical resource for the company, he oversees the technical and scientific content of the analytical services provided and provides technical assistance to laboratory's personnel and clients. Mr. Romanko represents Eurofins TestAmerica's Ask The Expert team as an expert on Radiochemistry.

Professional Experience

Technical Director- Eurofins TestAmerica - 2007 to present

Manages all technology operations for Eurofins TestAmerica, including future directions and strategy. Ensures that all Technology actions, plans and expenditures support Eurofins TestAmerica goals and directives. As a principal technical resource for the company, oversees the technical and scientific content of analytical services provided. Also, provides technical assistance to laboratory personnel and clients.

Project Manager II – 2007

Coordinates and manages customers' projects through all phases of laboratory operations, ensuring fulfillment of Severn Trent Laboratories commitments to client requirements, error-free work, and on-time delivery. Maintains communications with clients, Account Executives, and serves as a liaison between clients and laboratory operations to meet client's needs. Works closely with business unit personnel to manage quotations and change order for existing scopes of work. Monitors compliance with industry regulations, contractual agreements, program management processes, and program specifications. Works toward achieving goals for revenue, profit, and KRI's through the effective utilization of laboratory capacity and definition of customer requirements.

Project Manager I 2005 to 2007

Serves as the primary contact and technical consultant to major STL clients. With knowledge of EPA, ASTM, Standard Methods & California Analytical Methods and Regulations, provides clients with technical interpretation where necessary. With experience in sampling, provides clients with sample volumes, preservatives and shipping procedures. Characterizes samples for disposal. Assists with development and implementation of sales strategies and plans for the laboratory. Reviews and approves Certificate of Analysis, reports, and project data packages. Reviews and verifies client invoices for accuracy.

Terry Romanko
Technical Director

Operations Manager 2003 to 2005

Manages the day-to-day operational activities of a large analytical laboratory. Directly supervises group leaders, and coordinates the efforts of analytical operating groups.

Product Development and Quality Control Manager-NeoRx Corporation-Seattle, WA 2002 - 2003 (formerly International Isotopes, Inc)

Responsible for managing and coordinating all Chemistry, Manufacturing, and Controls activities to move NeoRx products from Research through Clinical Development to NDA stage. Managed pharmaceutical and radiopharmaceutical process development, scale-up, and process qualifications. Supervised analytical method development/validation and specifications development. Director quality control testing and release of raw materials and clinical materials produced in the NeoRx Seattle pilot plant, including investigations and external contractor oversight. Implemented technology/method transfer to outside organizations. Developed information required for and writing of CMC section of FDA and foreign regulatory submissions. Oversight of radiation safety practices within the laboratory (Radiation Safety Officer).

Radiochemical Technology and Manufacturing Manager 1997 – 2002

Responsible for the radiochemical manufacturing staff in the safe and reliable operation of manufacturing equipment and production of radiochemical in a cGMP environment. Oversight of radiochemistry chemists and technicians through production and technology transfer. Coordinated production planning, regulatory and quality engineering and safety departments, among others to meet customer requirements. Implemented production technology transfer and documentation in compliance with all relevant Federal, State and I3 procedures and requirements. Assisted in the day-to-day manufacturing and analytical testing of radiochemical and radiopharmaceuticals while assuming a supervisory role. Operated Gamma Spectroscopy and Beta/Gamma instrumentation. Included development and performance of analytical tests and formulation procedures, preparation and recovery of enriched target materials and writing of purchase specifications for laboratory equipment, components and raw materials. Was the principal inventor of the chemistry method and processing system for which a patent application was submitted for the production of a cyclotron-produced radiochemical.

Technical Lead, Radionuclide Section-LAS Laboratories, Inc- Las Vegas, NV 1996 - 1997 (formerly Lockheed Analytical Services)

Supervised and performed day-to day operations within the radionuclide section of the laboratory, including scheduling of work for employees to meet contractual requirements and data quality objectives for analysis of customer samples.

Technical Lead, radionuclide Counting 1990 – 1996

Assisted in the start-up of the environmental laboratory. Prepared and analyzed samples according to customer requirements, performed analytical chemistry methods and generated/reviewed analytical data reports. Generated and interpreted data from Alpha Scintillation, Alpha Spectroscopy, Gamma Spectroscopy, Gas-Flow Proportional Counting, Liquid Scintillation Counting, and other instrumentation. Tasks included writing sample preparation and instrument system Standard Operation Procedures. Responsible for instrument

Terry Romanko
Technical Director

set-up, maintenance, calibration and operation, laboratory set-up, and assisting with software design toward automated analysis and data transfer through the Radionuclide Section of the Laboratory. Instructed Laboratory Radiation Safety Training, and presented new methodology, Quality Assurance and Data Validation techniques.

Product Supervisor-Imagents, Inc.—TX 1988 – 1990

Responsible for scheduling, production, and shipping of radiopharmaceutical raw materials to meet orders, including a liaison with Texas Medical Center cyclotron facilities performing target irradiation, documentation under CGMP and Drug Master File guidelines, and compliance with all regulatory requirements including DOT/IATA transport. Generated and interpreted data from Gamma Spectroscopy and Beta/Gamma Counting Instrumentation. Also, assisted the Radiation Safety Officer to perform personnel and facility monitoring and documentation.

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Education

- ◆ BS Chemistry – Rice University (1988)

Professional Training

- ◆ Ethics Training

Kristen Ely
Quality Assurance Manager

Qualifications Summary

Ms. Ely has a B.S in Biology from Southern Illinois University Edwardsville. She has been in the environmental chemistry field since 2004, specializing in inorganic analyses. Ms. Ely's experience includes technical review for method and regulatory compliance, second level review of laboratory data and review of SOPs for method and regulatory compliance. Ms. Ely is responsible for developing and implementing the laboratory quality system.

Professional Experience**Quality Assurance Manager- Eurofins TestAmerica - 2016 to Present**

Responsible for developing and implementing the laboratory quality system. Responsibilities include providing Quality Systems training to all new personnel, maintaining ensuring that the laboratory's quality system and LQM meet the requirements set forth in the TestAmerica Quality Assurance Manual arranging and managing PT samples, and performing systems, data, special, and external audits with both clients and regulatory officials. Oversees the maintenance of QC records, maintains certifications, approves, develops, and maintains Standard Operating Procedures (SOPs), submits monthly QA Reports, and assists in reviewing new work as needed. Has the final authority to accept or reject data, and to stop work in progress in the event that procedures or practices compromise the validity and integrity of analytical data. The QA Manager is available to any employee at the facility to resolve data quality or ethical issues

Department Manager 2014 to 2016

Responsible for the overall operations of a specific laboratory area. These responsibilities include but are not limited to meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. Serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. Make recommendations to laboratory management in regard to process improvements.

Analyst III - 2008 to 2014

Prepares and analyzes environmental samples according to scientific and EPA methodology. Knowledgeable of both routine and complex analyses. Validates and reviews data for accuracy through Level I and II reviews. Uploads laboratory data into reporting system to generate data packages for delivery to clients. Schedules sample workload according to due dates and sample hold times. Knowledgeable of a broad range of laboratory testing equipment requiring the exercise of discretion and judgment in its operation.

Kristen Ely
Quality Assurance Manager

Analyst II – 2007 to 2008

Prepares and analyzes environmental samples using both routine and complex testing according to scientific and EPA methodology in compliance with TestAmerica Quality Assurance programs and SOP's. Validates and reviews data for accuracy through Level I reviews. Uploads laboratory data into reporting system to generate data packages for delivery to clients.

Analyst I- 2004 to 2007

Performs environmental analyses and/or preps of samples using standard analytical techniques in compliance with the laboratory's Quality Assurance programs and SOP's.

Education

- BS Biology – Southern Illinois University Edwardsville- (2005)

Professional Training

- Ethics Training
- Leadership Training
- Quality Assurance Management and Data Integrity Course

Sarah Bernsen
Operations Manager

Qualifications Summary

Ms. Bernsen graduated from Southern Illinois University Edwardsville with a B.A. in Biology. She has been in the environmental laboratory industry since 2007, specializing in radiochemistry. Ms. Bernsen is responsible for the day-to-day operational activities of the laboratory and directly supervises the Department Managers. She provides strategic and technical assistance to the Laboratory Director to evaluate, derive and implement longer term strategy for operational improvements in the laboratory's processes and systems.

Professional Experience

Operations Manager – Eurofins TestAmerica – 2019 to present

Manages the day-to-day operational activities of the laboratory and directly supervises the Department Managers. The Operations Manager provides strategic and technical assistance to the Laboratory Director to evaluate, derive and implement longer term strategy for operational improvements in the laboratory's processes and systems.

Department Manager – 2015 to 2019

Ms. Bernsen is responsible for the overall operations of the radiochemistry prep lab. These responsibilities include but are not limited to meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. She also serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. She is also responsible for making recommendations to laboratory management in regard to process improvements. Responsibilities also include but are not limited to scheduling and prioritizing work tasks, training, problem solving, implementing new procedures and methods and reviewing data.

Supervisor I - 2009-2015

Provides technical and operational support to a specific laboratory area while participating in daily sample production. Responsibilities include but are not limited to scheduling and prioritizing work tasks, training, problem solving, implementing new procedures and methods, analyzing samples, reviewing and validating data and completing reports.

Analyst I - 2007 to 2009

Performs environmental analyses and/or preps of samples using standard analytical techniques in compliance with Eurofins TestAmerica Quality Assurance programs and SOP's.

Education

- ◆ B.A. Biology – Southern Illinois University Edwardsville (2010)

Professional Training

- ◆ Ethics Training
- ◆ Leadership Training

Qualifications Summary

Ms. Cmar began her career in the environmental laboratory industry in 2002, specializing in radiochemistry. She has experience in customer service and laboratory procedures. Ms. Cmar is responsible for the overall operations of the Radiochemistry Department including day to day organization of laboratory sections, implementation of quality control procedures, training of analysts in sample prep and quality control procedures, maintenance of equipment, managing the human resources within the department and ensuring health and safety compliance.

Professional Experience

Department Manager – Eurofins TestAmerica – 2021 to present

Ms. Cmar is responsible for the overall operations of the radiochemistry lab. These responsibilities include but are not limited to meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. She also serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. She is also responsible for making recommendations to laboratory management in regard to process improvements. Responsibilities also include but are not limited to scheduling and prioritizing work tasks, training, problem solving, implementing new procedures and methods and reviewing data.

Group Leader/Laboratory Analyst – Pace Analytical Services, Inc. – 2006 to 2021

Provides technical and operational support while participating in daily production. Responsibilities include but are not limited to scheduling and prioritizing work tasks, training, problem solving, implementing new procedures and methods, prepping samples, reviewing and validating data and completing reports

Laboratory Analyst – 2004 to 2006

Performs environmental analysis of samples using standard analytical techniques.

Education

- ◆ B.A. Environmental Studies

Professional Training

- ◆ Ethics Training

Qualifications Summary

Ms. Mazariegos began her career in the environmental laboratory industry in 2014. She has experience in customer service and laboratory procedures. Ms. Mazariegos is responsible for the overall operations of the Radiochemistry Department including day to day organization of laboratory sections, implementation of quality control procedures, training of analysts in sample prep and quality control procedures, maintenance of equipment, managing the human resources within the department and ensuring health and safety compliance.

Professional Experience

Department Manager – Eurofins TestAmerica – 2019 to present

Ms. Mazariegos is responsible for the overall operations of the radiochemistry lab. These responsibilities include but are not limited to meeting client satisfaction goals, managing the human resources within the department, and ensuring health and safety and quality assurance plan compliance. She also serves as a technical resource to department employees, as well as Project Managers, sales personnel, and clients. She is also responsible for making recommendations to laboratory management in regard to process improvements. Responsibilities also include but are not limited to scheduling and prioritizing work tasks, training, problem solving, implementing new procedures and methods and reviewing data.

Supervisor – 2018 to 2019

Provides technical and operational support to the Rad Prep Department while participating in daily production. Responsibilities include but are not limited to scheduling and prioritizing work tasks, training, problem solving, implementing new procedures and methods, prepping samples, reviewing and validating data and completing reports

Radiochemistry Analyst – 2014 to 2016 and 2017 to 2018

Performs environmental preps of samples using standard analytical techniques in compliance with TestAmerica Quality Assurance programs and SOP's.

Education

- ◆ Francis Howell Central HS

Professional Training

- ◆ Ethics Training
- ◆ Leadership Training

Qualifications Summary

Ms. Saeed is responsible for directing all functions related to laboratory operations, project management, accounting/administrative functions, and information technology. In her role as laboratory director, Ms. Saeed oversees laboratory management in the implementation of new technology or methods into the production process and is responsible for implementation and supervision of systems and personnel in all areas of her oversight. Ms. Saeed has 30 years in the environmental laboratory industry with the last 21 years in the management role. Ms. Saeed has been employed at Air Toxics since 1998 and holds a bachelor's degree in Biochemistry from University of California, Davis.

Professional Experience

Laboratory Director / Vice President Operations – Eurofins Air Toxics – 2014 to Present

Mr. Saeed's is responsible for the overall management of the analytical laboratory including operations, customer service staff, accounting and information technology. Responsible for implementation of new technology, systems, training programs for staff, enforcing company's policies and procedures, problem solving for process improvements, quality assurance and quality control, scheduling and client support. She establishes and monitor key operation performance indicators, develops measurement systems and sets realistic target goals. Provides technical, operational and administrative leadership through management of resources to ensure turn-around-time objectives and quality goals are met. She is also responsible for the profit and loss of the facility.

Laboratory Director – 1998 - 2014**SVOC Department Manager – 2004 – 2008****Team Leader – 2000 – 2003****Scientist – 1999 – 2000****Laboratory Analyst – 1998****Chemist – MBT/CLS Laboratory – 1994 – 1998****Analyst – Eureka Laboratories, Inc. – 1991 - 1994**

Education

- ◆ B.S. Biochemistry – University of California Davis - 1988

Publications

- ◆ Comparison of Impinger and Canister Methods for the Determination of Siloxanes in Air, Sepideh Saeed, Sandia Kao, Guy Graening; AWMA Symposium of Air Quality Measurement Methods and Technology, 2002
- ◆ A Summary of Available Analytical Methods for the Determination of Siloxanes in Biogas, Heidi Hayes, Sepideh Saeed, Guy Graening, Sandia Kao; Solid Waste Association of North America, 2003

Qualifications Summary

Ms. Hayes has been in the environmental laboratory industry since 1993. Her extensive experience includes air phase analysis in regard to vapor intrusion investigations from soil gas collection and analysis to trace level indoor air VOC methods. She serves as a resource for the regulatory community and has presented multiple papers on techniques the lab has developed to meet industry challenges as well as best practices for air sampling and analyses. Ms. Hayes has a M.S in Applied Chemistry from Colorado School of Mines, Golden Colorado and B.A. in Chemistry and Mathematics from Luther College in Decorah Iowa.

Professional Experience

Technical Director and Vice President of Research & Development – Eurofins Air Toxics – 2005 to Present

Ms. Hayes currently oversees the testing of new media, protocols, and technology related to air phase analysis. She recently directed the validation and implementation of an enhanced TO-15 method to measure trace level VOCs in high concentration matrix and a specialized TO-15 method to measure ethylene oxide in ambient air. She led the indoor air laboratory testing plan for the ESTCP project ER-0830 (Development of More Cost-Effective Methods for Long-Term Monitoring of Soil Vapor Intrusion to Indoor Air Using Quantitative Passive Diffusive-Adsorptive Sampling Techniques); evaluated adsorption and off-gassing of VOCs from sampling equipment and collection media used for soil gas measurements; evaluated use of sorbents for air-phase VOCs and SVOCs for petroleum-impacted sites and collaborated on field study comparing passive sorbents to TO-15 canisters during remediation of a former MGP site. She designed quality procedures for active sorbent sampling and analysis to monitor loss due to oversampling or improper storage and handling; supervised EPA 325 method development and provided technical feedback to the EPA on method protocols and requirements; designed protocols for industrial client to analyze ozone depleting compounds off-gassing from circuit boards and developed sorbent collection and analysis method for the collection of VOCs and SVOC from industrial processes.

Director of Operations – 2001 to 2005

Manager of GC and GC/MS Team – 1996 to 2001

GC/MS Chemist – 1996

Education

-
- ◆ M.S. Applied Chemistry – Colorado School of Mines, Golden, CO
 - ◆ B.A. Chemistry and Mathematics – Luther College, Decorah, IA

Professional Reports and Presentations

- ◆ Applying Synchronous SIM/Scan MS to the Measurement of Ethylene Oxide in Ambient Air, A&WMA Air Quality Measurement Virtual Conference, May 11-13, 2021 (Hayes, H. and Benton, D.)
- ◆ A New Tool to Meet Risk-Based Screening Levels for VOCs in Soil Gas with High Matrix Effects, A&WMA Vapor Intrusion, Remediation, and Site Closure Conference, December 5-6, 2018, Phoenix, AZ (Hayes, H. and Benton, D.)
- ◆ Patching the Holes in the Fenceline – Updates to EPA 325 Requirements, 2017 AFPM Environmental Conference, October 15-17, 2017, Denver, CO (Hayes, H. and Reese, J.D.)
- ◆ Sensitivity of EPA 325 to Field Handling Protocols, 2016 AFPM Environmental Conference, October 16-18, 2016, New Orleans, LA (Hayes, H. and Reese, J.D.)
- ◆ Passive Sampling for Volatile Organic Compounds in Indoor Air – Controlled Laboratory Comparison of Four Sampler Types, McAlary, T., Groenevelt, H., Disher, S., Arnold, J., Seethapathy, S., Sacco, P., Crump, D., Schumacher, B., Hayes, H., Johnson, P., and Gorecki, T., Environmental Science Processes & Impacts, March 2015 (<http://pubs.rsc.org/en/content/articlelanding/2014/EM/C4EM00560K#!divAbstract>)
- ◆ Fluctuation of Indoor Radon and VOC Concentrations Due to Seasonal Variations, EPA/600/R-12/673, September 2012, Prepared by RTI International and ARCADIS U.S., Inc. (Report input by project team which included Heidi Hayes).
- ◆ Short-term Variability, Radon Tracer, and Long-term Passive Sampler Performance in the Field, AEHS 22nd Annual International Conference on Soil, Water, Energy, and Air, March 19-22, 2012, San Diego, CA. (Lutes, C., Cosky, B., Uppencamp, R., Abreu, L., Schumacher, B., Zimmerman, J., Truesdale, R., Lin, S., Hayes, H., and Hartman, B.)
- ◆ Field Evaluation of Diffusive Samplers for Indoor Air VOC Measurements, American Industrial Hygiene Conference & Exposition, May 14-19, 2011, Portland, OR. (Hayes, H.)
- ◆ Development of a Passive Sampling Alternative to EPA Method TO-15, DoD Environmental Monitoring and Data Quality Workshop, March 28-April 1, 2011, Arlington, VA. (Hayes, H. and Arnold, J.)
- ◆ Review of Best Practices, Knowledge and Data Gaps and Research Opportunities for the U.S. Department of Navy Vapor Intrusion Focus Areas, SPAWAR Division, Technical Report 1982, May 2009. (McAlary, T., Ettinger, R., Johnson, P., Eklund, B., Hayes, H., Chadwick, B. and Rivera, I.)

Qualifications Summary

Ms. Levesque has been in the environmental laboratory industry since 1999. She has a Master's in Chemistry from Rochester Institute of Technology. Her extensive experience includes analysis of air samples, laboratory management, training of laboratory personnel and she has the responsibility for all Quality Assurance procedures for the laboratory. Ms. Levesque is a technical resource for the department employees and project management staff.

Professional Experience

Quality Assurance Manager – Eurofins Air Toxics – 2005 to 2011 and 2014 to present

Ms. Levesque currently oversees the Quality Assurance department. She is responsible for all aspects of the quality system for the laboratory. Her responsibilities include implementing new policies and procedures as specified by EPA, NELAP and DoD regulations, review analytical data and reports for compliance with standards and regulations, conducts internal audits and responsible for external audits and monitoring corrective actions. She maintains NELAP and DoD accreditations, updates laboratory's Quality Manual, Methods Manual and Standard Operating Procedures, and overseeing the proficiency testing programs, she also provides ethics training to the laboratory personnel.

Regional Laboratory Manager – Weidmann Electrical Technology – 2011 to 2014

Ms. Levesque managed the West region laboratories located in CA, CO, TX and LA. She directed a team of 35 employees ensuring appropriate training and team building. She was responsible for new supervisor hires, making sure laboratory personnel were adequately trained, ensured company safety procedures were followed, provided technical support to clients. She developed action plans, managed financial budgets, strategized growth plans, staffing, facility and equipment needs. Led the implementation of ISO/IEC 17025 requirements in the West region and successfully received accreditation in all labs.

Team Leader – Air Toxics – 2001 to 2005**Laboratory Analyst/Scientist – 1999 - 2001****Education**

- ◆ M.S. Analytical Chemistry – Rochester Institute of Technology, Rochester, NY - 1998
- ◆ B.S. Chemistry – Rochester Institute of Technology - 1996

Publications

- ◆ Thesis: HPLC Methods Development for the Characterization of Phytopharmaceutical Materials, Melanie Levesque; Rochester Institute of Technology, 1998.

Education BS Biology, Chemistry Minor – Central Michigan University 1988
Business Management Programs – Indiana University South
Bend 1994 Lean Leadership – Underwriters Laboratory 2012

Professional Awards, Memberships

- American Society for Quality – 2004
- Institute for National Laboratory Accreditation

KEY EXPERIENCE

Dedicated scientist manager combining excellent academic credentials along with over 29 years of management and laboratory experience with one of the nation's top environmental laboratories carrying out testing according to EPA established protocols and industry regulatory standards. Proficiencies include High-Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), Gas Chromatography Mass Spectrometry (GC-MS), Solid Phase Extraction (SPE), Microbiology and Wet Chemistry techniques. Experienced in LEAN practices and CPR/AED/First Aid certified.

Employment Record

EUROFINS EATON ANALYTICAL – South Bend, IN

Director of Operations, 04/2014 to Present

- Directs and manages laboratory activities in a state of the art facility with annualized revenue of \$17-18mm.
- Responsible for over 80 employees.
- Responsible for financial performance and development of budget.

UL LLC – South Bend, IN

Laboratory Operations Manager, 2013 to 04/2014

- Oversees and coordinates laboratory operations and commercial activities in a state of the art facility with annualized revenue of \$7-11mm.
- Responsible for over 70 employees.
- Responsible for financial performance and development of budget.

UL LLC – South Bend, IN

Section Manager, 2001 to 2013

- Responsible for oversight of organic testing activities according to the Safe Drinking Water Act (SDWA), adhering to established EPA methodologies.
- Performed review and validation of organic and microbiological data for EPA compliance or client specific requirements.
- Responsible for calibration and maintenance of analytical and support equipment.
- Provided input to staff and trained staff on procedural improvements leading to reduction in cost for testing.
- Participated in location specific internal audit program.

ENVIRONMENTAL HEALTH LABORATORIES – South Bend, IN
GC/LC Team Leader, 1994 to 2001

- Responsible for organic testing activities according to established EPA methodologies.
- Coached analyst performing HPLC and GC analyses.
- Analyzed/Prepared thousands of samples for Organic testing using GC, HPLC and GC/MS.
- Responsible for calibration and maintenance of analytical and support equipment.
- Assisted or developed testing protocol to meet special customer requests.

ENVIRONMENTAL HEALTH LABORATORIES – South Bend, IN
Various Scientist Positions, 1991 to 1994

- Performed daily operation, calibration and maintenance of various types of laboratory equipment and analytical instrumentation.
- Analyzed and/or prepared thousands of samples for Organic, Inorganic and Microbiological testing according to the Safe Drinking Water Act (SDWA), adhering to established EPA methodologies.
- Performed solid phase extraction on thousands of samples.
- Responsible for calibration and maintenance of analytical and support equipment.
- Assisted or developed testing protocol to meet special customer requests.

Publications and Presentations

Hartz, M.W., George III, J.E., Hansen, E.M., Thoma, J.J., “Ultra-Low Detection of PCBs, Chloradane, and Toxaphene in Water by Large Volume Injection GC/ECD” WQTC. Tampa, FL. October 31-November 4, 1999.

Hartz, M.W., Laskowski, T.M., George III, J.E., Ward, G.K., Thoma, J.J., “Comparison of preservative in Proposed Standard Method 6252 Ozonation By-Products: Aldehydes” Poster #344. PittCon Book of Abstracts. Chicago, IL. March 3-8, 1996.

Education BS Applied Engineering – Michigan State University 1996
Supervisory Development Program – University of Notre Dame 2002

Professional Awards, Memberships The NELAC Institute – Member since 2013.
ASQ – Member since 2013

KEY EXPERIENCE

Dedicated quality and facilities manager combining excellent academic credentials along with 21 years of experience with one of the nation's top environmental laboratories. Proficient in LEAN leadership, quality systems, management strategies and laboratory operations. Experienced in preventive and corrective actions, laboratory safety, facilities project management, customer service, and vendor relations.

Employment Record**EUROFINS EATON ANALYTICAL, LLC - South Bend, IN**

QA and Facilities Manager, 04/2014 to Present (Eurofins), 2013 to 04/2014 (UL LLC)

- Lead staff and daily operations of Quality Assurance and Facilities.
- Responsible for ensuring ongoing accreditation of the laboratory, including audits and PT studies.
- Performed audits of the laboratory and reviews system documentation for compliance and consistency.
- Identifies areas for preventive and corrective action.
- Oversaw and participated in location specific internal audit program.
- Oversaw assigned operations to achieve department objectives and operation goals.
- Developed and implemented operating plans, goals and budgets within departments.
- Participated in development of annual business plans.

UL LLC – South Bend, IN

Section Manager III, 2012 to 2013

- Lead staff and daily operations of Facilities.
- Performed daily duties in the Quality Assurance Department including document management, overseeing audits and assisting with certifications.
- Oversaw assigned operations to achieve department objectives and operation goals.
- Developed and implemented operating plans, goals and budgets within departments.
- Participated in development of annual business plans.
- Trained as a Corrective Action Report (CAR) Administer.
- Participated in location specific internal audit program.

UNDERWRITERS LABORATORIES INC (name changed to UL LLC Jan 2012) – South Bend, IN

Section Manager III, 2010 to 2012

- Lead staff and daily operations of Reporting and Facilities.

- Oversaw assigned operations to achieve department objectives and operation goals.
- Developed and implemented operating plans, goals and budgets within departments.
- Participated in development of annual business plans.
- Led Kata for eliminating paper from the reporting process, decreasing postage and labor cost.
- Oversaw facility projects within the building. For example, building out a new lab for water systems testing.
- Participated in location specific internal audit program.

UNDERWRITERS LABORATORIES INC – South Bend, IN
Section Manager III, 2004 to 2010

- Lead staff and daily operations of Reporting, Shipping and Receiving.
- Oversaw assigned operations to achieve department objectives and operation goals.
- Developed and implemented operating plans, goals and budgets within departments.
- Participated in development of annual business plans.
- Developed new labeling system for Shipping and Receiving eliminating manual entries.
- Continued development of electronic reporting system.
- Participated in location specific internal audit program.

UNDERWRITERS LABORATORIES INC – South Bend, IN
Reporting Manager, 2002 to 2004

- Responsible for managing the Reporting Section.
- Ensured that all client reports were complete and meet all client and/or regulatory requirements.
- Ensured that all invoices were created accurately and all reports were mailed.
- Conducted employee evaluations on all Reporting staff.
- Participated in development of annual business plans.
- Developed a new electronic reporting system for client reports, moving from paper..
- Participated in location specific internal audit program.

ENVIRONMENTAL HEALTH LABORATORIES (EHL) – South Bend, IN
Data Technician I, 1999 to 2002

- Entered client data and analysis results into technical reports.
- Created laboratory and client formats and reports.
- Created invoices.
- Mailed reports.
- Maintained copies of all client reports for EHL records.
- Performed bench-scale/jar testing procedures based on client protocol.
- Safety committee member, assisting in the revising of the chemical hygiene plan.

Education

BS Natural Resources and Environmental Management with a Chemistry Minor, additional focus on Economics – Ball State University 1998

KEY EXPERIENCE

Dedicated scientist combining excellent academic credentials along with 23 years of experience with one of the nation's top environmental laboratories performing testing according to EPA established protocols and industry regulatory standards. Proficient in Gas Chromatography (GC), Gas Chromatography/Mass Spectrometry (GC/MS), Inductively Coupled Plasma (ICP), Graphite Furnace Atomic Adsorption (GFAA), and Solid Phase Extraction (SPE) techniques.

Employment Record**Eurofins Eaton Analytical, LLC - South Bend, IN**

Technical Manager, 04/2014 to Present (Eurofins), 06/2013 to 04/2014 (UL)

- Responsible for technical, administrative, and personnel management of assigned lab section.
- Responsible for developing and implementing operating plans, goals and budgets for lab sections.
- Responsible for oversight of Organic and Microbiology testing Laboratories according to the Safe Drinking Water Act (SDWA), adhering to established EPA methodologies.
- Perform review and validation of analytical data for EPA compliance or client specific requirements.
- Assist in the analysis and/or preparation of samples for Organic and Microbiological testing.
- Provide input to staff as well as train staff on procedural improvements leading to reduction in cost.
- Participate in location specific internal audit program.

UL LLC – South Bend, IN

Scientist I, II, and III, April 2001 to June 15, 2013

- GC/MS Scientist -
 - Primary analyst for methods 525.2, 548.1, S150
 - Secondary analyst for method 521 (UCMR3) and 549.2 (LC)
 - Varian GC/MS, Agilent GC/MS, Varian LC
- Performed various testing according to the Safe Drinking Water Act (SDWA), adhering to established EPA methodologies.
- Performed review and validation of organic data for EPA compliance or client specific requirements.
- Responsible for calibration and maintenance of analytical and support equipment.
- Emergency Response Team Member, HAZWOPER certified
- 1 Week LEAN/DMAIC training
- Team Leader for SCRAM project
- Labware LIMS Admin 1 training
- Redesigned Enviropro reporting package for GC/MS software

- Provided input to procedural improvements leading to reduction in cost for testing.
- Participated in location specific internal audit program.

HOOSIER MICROBIOLOGICAL LABORATORIES – Muncie, IN
Chief of Inorganic Chemistry, 1997 to 2001

- Responsible for all aspects of Metals Department including:
 - Personnel, Purchasing, Certification, Analysis/Analysts, Reporting, Glassware, and Waste Disposal
- Primary analyst for methods 200.7, 200.9, 245.1
 - Drinking water, Waste water, and Solid/Hazardous Waste analysis, TCLP
 - Perkin Elmer Graphite furnace, Leeman Labs ICP, Leeman Labs Mercury analyzer
- GC/MS Analyst
 - Primary analyst for methods 525.2, 548.1
 - Agilent GC/MS
- TOC Analyst
- TOC Analyst
- Emergency Response Team Member, HAZWOPER certified

Yongtao (Bruce) Li, Ph.D.

Education

BS and MS Chemistry Northeast Normal University – Changchun, China
1983 and 1988
Ph.D. Analytical Chemistry - Southern Illinois University at Carbondale
1998
Supervisory Development Program Certificate in Executive Education -
University of Notre Dame 2003

**Professional Awards,
Memberships**

UL William Henry Merrill Society – Life-time member & corporate fellow,
2013
Outstanding Dissertation Research Award, Southern Illinois University at
Carbondale, IL, 1996
American Water Work Association (AWWA) – Member since 2005
Standard Methods Committee and Joint Task Groups, AWWA – Member
since 2008
Organic Research Committee, AWWA – Member since 2015
American Chemical Society (ACS) – Member since 1996
American Society for Mass Spectrometry (ASMS) – Member, 1999-2002
National Ground Water Association (NGWA) – Member, 2001-2002
Over a dozen peer-reviewed journals – Invited critical manuscript reviewer
since 2000

KEY EXPERIENCE

Dedicated/Committed technical leader combining excellent academic credentials along with over 32 years of experience with one of the nation's top environmental laboratories performing testing according to EPA established protocols and industry regulatory standards. Recognized expert in environmental and analytical chemistry. Directed and accomplished 100+ research and specialty testing projects. Published 28+ peer-reviewed research articles/book chapters and 60+ conference presentations. Developed 80+ standard operating procedures. Invited critical manuscript reviewer for more than a dozen peer-reviewed journals (e.g. Analytical Chemistry, Environmental Science & Technology, Water Research, Journal of Chromatography A, etc.).

Employment Record**EUROFINS EATON ANALYTICAL, LLC– South Bend, IN**

Technical Director, 4/2014 to Present

- Oversee all technical aspects of the lab operations.
- Manage R&D, LC/MS, and radiochemistry since 2012.
- Review and approve technical standard operating procedures (SOPs), database entry modification, method development and expansion, certification applications, and requests for proprietary information. Ensure compliance with state and federal regulations;
- Lead/participate lab budget planning, operational management, and performance evaluation. Facilitate good working relationships and teamwork to meet annual goals;
- Review the technical competency. Plan capital investment and new technology acquisition. Direct installation, validation, and maintenance. Ensure training for lab personnel in new technology and laboratory procedures;
- Plan and direct R&D activities and special research projects. Represent EEA at conferences, symposia, and trade shows;
- Lead/participate troubleshooting, proficiency evaluation/test (PE/PT), corrective action requests (CARs), and continuous quality and performance improvement; and

- Lead/participate business development activities. Explore innovative approaches to increase revenue and profit. Assist the Sales, Marketing, and Client Services in building and maintaining positive customer relationships and sales growth; Review RFBs or RFPs as necessary; and
- Review and ensure compliance with administrative procedures and ethical policies.

UL LLC – South Bend, IN

Technical Director, 2005 to 05/2014

- Oversaw all technical aspects of the lab operations.
- Managed R&D and LC/MS, metal/inorganic chemistry, radiochemistry, and medical device testing lab operations
- Reviewed and approved technical standard operating procedures (SOPs), database entry modification, method development and expansion, certification applications, and requests for proprietary information. Ensured compliance with state and federal regulations
- Led/participated in lab budget planning, operational management, and performance evaluation. Facilitated good working relationships and teamwork to meet annual goals
- Reviewed the technical competency. Planned capital investment and new technology acquisition. Direct installation, validation, and maintenance. Ensured training for lab personnel in new technology and laboratory procedures;
- Planned and direct R&D activities and special research projects. Represented UL at conferences, symposia, and trade shows;
- Led/participated in troubleshooting, proficiency evaluation/test (PE/PT), corrective action requests (CARs), and continuous quality and performance improvement
- Led/participated in business development activities. Explored innovative approaches to increase revenue and profit. Assisted the Sales, Marketing, and Client Services in building and maintaining positive customer relationships and sales growth. Reviewed RFBs or RFPs as necessary
- Reviewed and ensured compliance with administrative procedures and ethical policies.

UL LLC / ENVIRONMENTAL HEALTH LABORATORIES (1998-2000) – South Bend, IN

Senior Research Scientist, 1998 to 2005

- Designed, developed, and validated new analytical methods using various technologies;
- Acquired, installed, and validated new analytical techniques;
- Performed technical troubleshooting, training, and continuous method improvement;
- Conducted technical marketing and represented at conferences, symposia, and trade show; and
- Provided technical support to business development, sales & marketing, and client services.

SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE – Carbondale, IL

GC/MS and MS Facility Operator/Research Assistant, 1993 – 1998

- Designed and conducted analytical services, maintained the GC/MS and MS facility, and trained others in the use of instrumentation;
- Developed a droplet electrospray technique for LC/particle beam/MS;
- Investigated particle characteristics and carrier effects associated with the quantitative aspects of LC/particle beam/MS;
- Studied a variety of high efficiency sample introduction techniques using electrospray, thermospray, and pneumatic nebulization, and ultrasonic coagulation; and
- Analysed environmental samples (PCBs, PCB derivatives, PAHs, etc.), coal mine air, and physiological fluids (synthetic organic compounds and metabolites).

NORTHEAST NORMAL UNIVERSITY – Changchun, China

Lecturer, 1988 – 1992

- Taught instrumental analysis and quantitative chemistry. Conducted trace analysis research;

- Developed liquid membrane extraction techniques coupled with spectroscopic detection for analysing trace elements in aqueous samples;
- Developed a multi-wavelength linear combination UV/Vis method for rare earth analyses; and analysed metals, pesticides, herbicides, amino acids, peptides, drugs, and metabolites in a variety of sample matrices including water, soil, tissues, plasma, urine extracts, etc.

Selected Relevant Research Experience

Risk Benefit Assessment of Chlorite as a Co-Disinfectant for Nitrification Control in Chloraminated Drinking Water Systems, WRF 4998, Water Research Foundation, 2019-2020, as a co-PI.

PI: Dr. Eric Zhu, Louisville Water Company

Disinfection By-Product 43 Analyte Study in Drinking Water Concentrates, RFQ-DC-13-00117, U.S. Environmental Protection Agency, 2013-2017.

Water Sample Testing: Evaluation of Manganese Removal, W912GY-13-T-0026, Sierra Army Depot (SIAD), 2014.

Persistence and Bioaccumulation of Contaminants of Emerging Concern in the Biota of Nantucket Sound, Massachusetts Environmental Trust and Center for Coastal Studies (CCS), 2014-2015.

PI: Dr. Amy Costa, Center for Coastal Studies

Evaluating GAC Filters for Control of DBP Precursors and Trace Organic Contaminants – 4101, AWWA Research Foundation. 2007-2012.

PI: Dr. Lance Schideman, CDM Smith Inc.

Evaluation of Analytical Methods for EDCs and PPCPs via Inter-Laboratory Comparison – 4167, AWWA Research Foundation, 2010-2012.

PI: Brett Vanderford, Southern Nevada Water Authority

Emerging Contaminants in Cape Cod Drinking Water, Massachusetts Environmental Trust and U.S. Centers for Disease Control and Prevention, 2009, 2011, and 2014.

PI: Dr. Laurel Schaidler, Silent Spring Institute

Development of a High Performance Liquid Chromatography-Mass Spectrometry (HPLC-MS) Method for Determination of Select Contaminants, U.S. EPA/Computer Sciences Corporation (CSC), 2007-2008.

Participant Laboratory Multi-Laboratory Study for Development and Validation for USEPA Drinking Water Method 300.1, U.S. EPA/Computer Sciences Corporation (CSC), 2007.

Selected Recent Publications

Yongtao Li, Joshua S. Whitaker, and Christina L. McCarty, Analysis of Iodinated Haloacetic Acids in Drinking Water by Reversed-Phase Liquid Chromatography/Electrospray Ionization/Tandem Mass Spectrometry with Large Volume Direct Aqueous Injection, J. Chromatogr. A 2012, 1245, 75-82.

Yongtao Li, Joshua S. Whitaker, and Christina L. McCarty, Reversed-Phase Liquid Chromatography/Electrospray Ionization/Mass Spectrometry with Isotope Dilution for the Analysis of Nitrate and Nitrite in Water, J. Chromatogr. A 2011, 1218, 476-483.

Yongtao Li, Joshua S. Whitaker, and Christina L. McCarty, New Advances in Large-Volume Injection Gas Chromatography-Mass Spectrometry (Review Article), J. Liq. Chromatogr. Rel. Technol. 2009, 32, 1644-1671.

William E. Davis II and Yongtao Li, *Analysis of Hydrazine in Drinking Water by Isotope Dilution Gas Chromatography/Tandem Mass Spectrometry with Derivatization and Liquid-Liquid Extraction*, *Anal. Chem.* 2008, 80 (14), 5449-5453.

Yongtao Li, Ed J. George, and Christina L. McCarty, *Online In Situ Analysis of Selected Semi-volatile Organic Compounds in Water by Automated Microscale Solid-Phase Extraction with Large-Volume Injection/Gas Chromatography/Mass Spectrometry*, *J. Chromatogr. A*, 2007, 1176, 223-230.

Yongtao Li, Ed J. George, Christina L. McCarty, Steven C. Wendelken, *Compliance Analysis of Phenylurea and Related Compounds in Drinking Water by Liquid Chromatography/Electrospray Ionization/Mass Spectrometry Coupled with Solid-Phase Extraction*, *J. Chromatogr. A*, 2006, 1134, 170-176.

Yongtao Li and Ed J. George, *Reversed-Phase Liquid Chromatography/Electrospray Ionization/Tandem Mass Spectrometry for Analysis of Perchlorate in Water*, *J. Chromatogr. A*, 2006, 1133, 215-220.

Yongtao Li and Ed J. George, *Analysis of Perchlorate in Water by Reversed-Phase LC/MS/MS Using an Internal Standard Technique*, *Anal. Chem.* 2005, 77, 4453-4458.

Li, Yongtao and Koropchak, John A. *Droplet Electrospray Nebulization for Particle Beam LC-MS*, *Instrument. Sci. Technol.* 2000, 28 (2), 141-162.

Y. Xie, H. Zhou, R.S. Bhangu, and B.Y. Li, *Chemical Species (Review Article)*. *Water Environment Research*, 1999, 71 (5), 519-530.

Li, Yongtao and Koropchak, John A. *Investigation of Particle Characteristics and Carrier Effects on Particle Beam LC-MS*, *Instrument. Sci. Technol.* 1998, 26 (4), 389-407.

Bill Davis and Yongtao Li, *Validation of EPA Method 524.3 for Low Level Analysis of TCP, EDB, and DBCP*, *Proceedings of NEMC*, Jacksonville, FL, Aug. 5-9, 2019

Joshua S. Whitaker and Yongtao Li, *Comparison of Cell Lysis Methods for Analysis of Total Cyanotoxins in Water*, *Proceedings of WQTC*, Toronto, Canada, Nov. 11-15, 2018.

Joshua S. Whitaker and Yongtao Li, *PFAS Analysis Fundamentals – Collection, Storage, and Extraction of Water Samples*, *Proceedings of WQTC*, Toronto, Canada, Nov. 11-15, 2018.

Joshua S. Whitaker, Ali Haghani, and Yongtao Li, *Identification of New Per- and Polyfluoroalkyl Substances in Water*, *Proceedings of WQTC*, Toronto, Canada, Nov. 11-15, 2018.

Yongtao Li and Joshua S. Whitaker, *Legacy and Emerging PFCs in Drinking Water: Beyond UCMR3*, *Proceedings of AWWA ACE*, Las Vegas, NE, June 11-14, 2018.

Yongtao Li and Joshua S. Whitaker, *A Rapid and Cost-Effective LC/MS/MS Method for Simultaneous Analyses of Multiple Cyanotoxins*, *Proceedings of WQTC*, Portland, OR, Nov. 12-16, 2017.

Yongtao Li and Joshua S. Whitaker, *Perfluorinated Chemicals in Drinking Water: Beyond UCMR 3*, *Proceedings of WQTC*, Portland, OR, Nov. 12-16, 2017.

Yongtao Li and Joshua S. Whitaker, *Cost-Effective and Accurate Analysis of Cyanotoxins by UPLC/MS/MS and ELISA*, *Proceedings of WQTC*, Nov. 13-15, 2016, Indianapolis, IN, Nov. 13-15, 2016.

Yongtao Li and Joshua S. Whitaker, Rapid and Accurate UPLC/MS/MS Analysis of Microcystins and Nodularin Using Isotopically Labeled Microcystin Analogs, Proceedings of WQTC, Nov. 15-19, 2015, Salt Lake City, UT, USA

Yongtao B. Li, A Case Study Profiling DBP Formation Control Indicators, Proceedings of WATERCON, March 23-26, 2015, Springfield, IL, USA

Yongtao Li, Joshua S. Whitaker, and Shep Lovick, Formation Control and Analysis of Oxyhalide Ions in Hypochlorite Solutions, Proceedings of WQTC, Nov. 16-20, 2014, New Orleans, LA, USA

Yongtao Li, Challenges and Solutions in UCMR3 Analyses, Proceedings of WQTC, Nov. 3-7, Long Beach, CA, USA

Jane Timm, James Lovick Jr, Raymond Siery, and Yongtao Li, Measurement and Control of Hexavalent Chromium in Drinking Water, Proceedings of WATERCON, March 19-22, 2012, Springfield, IL, USA

Yongtao B. Li, Analytical Methods for Carcinogenic VOCs in Drinking Water, Analytical Methods Workshop for Carcinogenic VOCs, Sept. 20, 2011, Cincinnati, OH, USA

Yongtao B. Li, and Joshua S. Whitaker, Christina L. McCarty, Determination of Iodinated Acetic Acids in Drinking Water, Proceedings of WQTC, Nov. 13-17, 2011, Phoenix, AZ, USA

Jane Timm, James Lovick Jr, Raymond Siery, and Yongtao Li, Optimizing Sample Preservation for Hexavalent Chromium Analyses in Waters, Proceedings of NEMC, Aug. 15-19, 2011, Bellevue, WA, USA

Joshua S. Whitaker, Christina L. McCarty, and Yongtao B. Li, Modified EPA Method 1694 for PPCPs in Waters, Proceedings of WQTC, Nov. 15-17, 2009, Seattle, WA, USA.

Yongtao B. Li, and Joshua S. Whitaker, Christina L. McCarty, Direct Analysis of Haloacetic Acids in Drinking Water by Reversed-Phase LC/ESI/MS, Proceedings of WQTC, Nov. 15-17, 2009, Seattle, WA, USA

Yongtao B. Li, Joshua S. Whitaker, and Christina L. McCarty, Direct Analysis of Nitrate and Nitrite in Waters by Reversed-Phase LC/ESI/MS, Proceedings of NEMC, August 10-15, 2009, San Antonio, TX, USA

Yongtao B. Li and William E. Davis, Improved Standard Method 6040D for Geosmin and MIB, Proceedings of WQTC, Proceedings of ISAWWA and IWEA, March 16-19, 2009, Springfield, IL, USA

Education

BS Chemistry with Honors – Beloit College 1989
Business Management Programs – Indiana University South Bend 1994
Principles of Operational Excellence & Assessment, Shingo Prize – Utah State University 2012

Professional Awards, Memberships

American Chemical Society (ACS) – Member

KEY EXPERIENCE

Dedicated scientist manager combining excellent academic credentials along with over 30 years of experience with one of the nation's top environmental laboratories performing testing according to EPA established protocols and industry regulatory standards. Proficient in High-Performance Liquid Chromatography (HPLC), High-Performance Liquid Chromatography Mass Spectroscopy (LCMS), Gas Chromatography (GC), Gas Chromatography Mass Spectroscopy (GCMS), Solid Phase Extraction (SPE), and Wet Chemistry techniques. Experienced in ANSI 60/61 certification and LEAN practices. CPR/AED/ First Aid certified.

Employment Record**EUROFINS EATON ANALYTICAL, LLC - South Bend, IN**

Technical Manager, 04/2014 to Present (Eurofins), 2003 to 04/2014 (UL LLC)

- Responsible for technical, administrative, and personnel management of assigned lab section.
- Responsible for developing and implementing operating plans, goals and budgets for lab section.
- Responsible for oversight of custom analytical and organic testing activities according to the Safe Drinking Water Act (SDWA), adhering to established EPA methodologies.
- Perform review and validation of analytical data for EPA compliance or client specific requirements.
- Assist in the analysis and/or preparation of samples for Organic, Inorganic and Microbiological testing.
- Provide input to staff as well as train staff on procedural improvements leading to reduction in cost.
- Participate in location specific internal audit program.

UNDERWRITERS LABORATORIES INC – South Bend, IN

Scientist I, 2001 to 2003

- Performed daily operation, calibration and maintenance of various types of laboratory equipment and analytical instrumentation.
- Performed various testing methods according to the Safe Drinking Water Act (SDWA), adhering to established EPA methodologies.
- Analyzed and/or prepared thousands of samples for Organic, Inorganic and Microbiological testing.

- Developed various analytical methods to meet either EPA method protocols or specific client requirements.

ENVIRONMENTAL HEALTH LABORATORIES – South Bend, IN
Various Scientist titled positions, 1990 to 2001

- Performed daily operation, calibration and maintenance of various types of laboratory equipment and analytical instrumentation.
- Analyzed and/or prepared thousands of samples for Organic, Inorganic and Microbiological testing according to the Safe Drinking Water Act (SDWA), adhering to established EPA methodologies.
- Performed solid phase extraction on thousands of samples.
- Developed various analytical methods to either EPA method protocols or to meet specific client needs.

Publications and Presentations

Rhonda Day, “Managing Micro-pollutants.” Water & Wastewater International. Volume 25, Issue 6, (December/January 2010-2011): p. 40-42.

Thoma, J.J., George III, John E., Shumaker, R.S. “EPA Method 507 and 515.1 Parameters by Axial Modulation Ion Trap MS and Empore Disk Extraction.” California Pesticide Residual Workshop, Sacramento, CA. February/March. 1991.

Nathan Trowbridge

Education BS Chemistry and Biology – Valparaiso University 1990
 Supervisory Development Program – University of Notre Dame 2003

Professional Awards, Memberships American Water Works Association (AWWA) – Member since 2001
 National Rural Water Association (NRWA) – Member since 2007

KEY EXPERIENCE

Dedicated professional combining excellent academic credentials along with 28 years of experience with one of the nation's top environmental laboratories performing testing according to EPA established protocols and industry regulatory standards. Proficient in Project Management, Drinking Water Regulations, Public Speaking and Cross-Functional Team Leadership. Experienced in Lean Practices and Supervisory Management.

Employment Record**EUROFINS EATON ANALYTICAL, LLC - South Bend, IN**

Customer Services Manager, 04/2014 to Present (Eurofins), 2003 to 04/2014 (UL LLC)

- Manages Client Services group and selected projects
- Manages Shipping and Receiving department
- Manages Reporting group
- Coordinates preparation of key/strategic business proposals
- Performs follow-up, as required, on outstanding Accounts Receivable
- Participates in conferences and tradeshow exhibits
- Works with Business Development in the development of Sales and Marketing strategies
- Works on special projects affecting customer-related activities

UNDERWRITERS LABORATORIES INC / EHL – South Bend, IN

Senior Project Manager, 1999 to 2003

- Served as the primary interface and communication link between clients and laboratory staff to ensure client needs and regulatory needs are met. Identified and pursued new business opportunities.
- Identified and pursued new business opportunities.

ENVIRONMENTAL HEALTH LABORATORIES (EHL) – South Bend, IN

Project Manager, 1998 to 1999

- Represented the laboratory to existing and prospective clients verbally and through written quotes and proposals.
- Coordinated inter-departmental communication related to shipping, analysis, reporting and invoicing of sample sets.
- Documented and summarized local, state, and federal regulations affecting the analytical requirements for public water supplies, bottled water and beverage manufacturers.

ENVIRONMENTAL HEALTH LABORATORIES (EHL) – South Bend, IN
Metals / Inorganics Team Leader, 1992 to 1998

- Performed metals testing with ICP/MS, graphite furnace atomic absorption, flame atomic absorption, and mercury testing on Leeman AP200/PS200 system.
- Tested and assisted in method development of Alpkem wet chemistry auto analyzer.
- Supervised Inorganics department staff.
- Developed QA/QC procedures for ICR analyses – Calcium Hardness and Turbidity.
- Performed data generation and data validation for ICR analyses.

Publications and Presentations

Nathan Trowbridge, Use of ICP-MS in a Certified Drinking Water Laboratory, FACCS conference, St. Louis, MO, October 1994

Nathan Trowbridge, Using ICP-MS to Test for Lead and Copper for the Lead and Copper Rule, Submitted to Varian, June 1995

Nathan Trowbridge, E. coli for Small Systems for LT2, Michigan DEQ Drinking Water seminar, May 2006

Nathan Trowbridge, E. coli for Small Systems for LT2, TCEQ Public Drinking Water Conference, Austin, TX, August 2006

Nathan Trowbridge, Jessie Varab, Laboratory Perspective of UCMR2, West Shore Water Producers Quarterly meeting, Highland Park, IL, May 2007

Nathan Trowbridge, Jessie Varab, Laboratory Perspective of UCMR2, TCEQ Public Drinking Water Conference, Austin, TX, August 2007

Yongtao Li, **Nathan Trowbridge**, Pharmaceuticals in Drinking Water – What We've Found, Illinois Section AWWA, Glenview, IL, May 2009

Yongtao Li, **Nathan Trowbridge**, Pharmaceuticals in Drinking Water – What We've Found, Kentucky/Tennessee Section AWWA, Lexington, KY, July 2009

Nathan Trowbridge, Jessie Varab, Water Security: Lessons Learned from an Emergency Response Event at a Public Water Supply, published in EPA's ERLN/WLA Liaison Update, 2011 Summer Edition

Nathan Trowbridge, From Receipt to Report - Your Sample's Path Through the Lab, Northwest Indiana AWWA district meeting, June 2011

Nathan Trowbridge, Analytical Measurements Down the Road – Where Will It Take Us?, Illinois Potable Water Supply Operators Annual Conference, September 2011

Nathan Trowbridge, Jessie Varab, UCMR3 – What You Need to Know, Georgia Rural Water, Helen, Georgia, November 2012

Nathan Trowbridge, Jessie Varab, UCMR3 Sampling Workshop, Indiana AWWA, Indianapolis, IN, February 2013

Nathan Trowbridge, Jessie Varab, UCMR3 – What You Need to Know, California/Nevada AWWA, Las Vegas, NV, March 2013

Nathan Trowbridge, Jessie Varab, UCMR3 – What You Need to Know, "Drinking Water Rules and Regulations Update" seminar, Raleigh, NC, July 2013

Shawn Kusma
Business Unit Manager

Qualifications Summary

Mr. Kusma has been in the environmental industry since 1997. His experience as an analyst he has direct analytical experience with a wide variety of organic methods including Methods 524.2/624/8260, 608/8081/8082, 8021, 8015 as well as 625/8270. He also performed analyses for BTEX, chlorinated solvents, petroleum hydrocarbons, PCBs, pesticides as well as cyanide, hexavalent chromium and metals in the field as a mobile laboratory analyst. As an Organics Manager, Mr. Kusma was responsible for all aspects of the Semi-volatiles and Volatiles Departments. Areas of responsibility included scheduling sample load for analysis, reviewing analytical & QC data, writing & revising SOPs, monitoring the group's budget and maintaining data quality. In addition, Mr. Kusma supervised analysts and Group Leaders. He was responsible for personnel training, instrument maintenance, method development, as well as performing analytical methods.

Professional Experience

Business Unit Manager – Eurofins Frontier Global Sciences - Dec 2019 to present

Responsibilities include the technical and administrative management of the analytical laboratory and program management staff of the facility including approximately 40 chemists, scientists and project managers; functional groups of the facility include Sample Control, Sample Preparation, Organic Chemistry, Metals, General Inorganic Chemistry, Project Management, Customer Service Management, QA/QC, Information Technology and Report Generation; other responsibilities include adherence to budget, staff development, quality assurance and quality control, scheduling, client support/liaison as well as profit and loss responsibility for the Seattle laboratory and Portland service center.

Laboratory Consultant

Diamond Chrome Plating, Inc., Howell, MI – 3/2019 to 12/2019

Business Unit Manager

Bureau Veritas – 2015 to 2018

Volatiles Department Manager

Test America Laboratories, Inc. Phoenix, AZ – 2010 to 2014

Operations Manager

TestAmerica Laboratories, Inc. Phoenix, AZ – 2007 to 2010

Laboratory Manager (Organics)

Transwest Geochem, Inc. Phoenix, AZ – 2004 to 2007

Volatiles Organics Chemist

Transwest Geochem, Inc. Phoenix, AZ – 2001 to 2004

Mobile Lab Field Chemist

Transwest Geochem, Inc. Phoenix, AZ – 1998 to 2001

Urinalysis Chemist

Southwest Laboratories Phoenix, AZ – 1997

Shawn Kusma
Business Unit Manager

Education

- ◆ B.S. in Biology – Arizona State University – Tempe, AZ – 1996

Professional Training

- ◆ Ethics in the Workplace, 2019-current (trained annually)
- ◆ CH2M HILL Certified Associate Project Manager – 1999

Terri Torres
Quality Assurance Manager

Qualifications Summary

Ms. Torres has been in the analytical services field since 1994. This experience includes a wide variety of both organic and inorganic analysis as well as Quality Assurance Manager. Her instrumentation experience includes GS/MS, GC, AA, ICAP, IR and auto-analyzers. Ms. Torres' diversified experience has provided her with broad-based familiarity with regulatory protocols and methodologies including WA State DOE, State of CA DOH, NELAP, US Army Corps of Engineers, US Navy and others.

Professional Experience

Quality Assurance Manager – Eurofins Frontier Global Sciences – 2012 to present

Responsible for developing and implementing the quality systems at the Eurofins TestAmerica laboratory and for verifying the laboratory's compliance with those systems with responsibilities including writing, revising and implementing Quality Assurance policies and procedures and internal auditing, administering the performance evaluation program, coordinating the laboratory's certification and accreditation activities and associated company website updates, directing the preparation for external audits and the ensuing corrective action process, conducting in-house training, presenting seminars on analytical and regulatory topics, interfacing with clients on QA/QC issues and summarizing the activities of his department in regular reports to laboratory management.

Customer Services Manager – 2006 to 2012

Directly supervised the Project Management team; was responsible for overall implementation of client services such as the development of client relationships, client contracts, preparation of bids and proposals and management of large-scale client projects/contracts with clients that include the USACE and many environmental engineering firms supplying services to either USACE or US Navy; liaison between clients and the laboratory to achieve client satisfaction through laboratory performance.

Project Manager – 2005 to 2006**Quality Assurance Manager – 2003 to 2005****Project Manager – Sound Analytical Services, Inc – 2000 to 2003****QA Chemist / Organic Chemistry Supervisor – 1999 to 2000****Inorganic Chemistry Supervisor – 1998 to 1999****Chemist I & II – 1995 to 1998****Waste Profile Technician – 1994 to 1995****Education**

- ◆ B.S. in Biology - Evergreen State College (1993)
- ◆ Computer Database Courses - Bellevue Community College (1995)

Terri Torres
Quality Assurance Manager

Professional Training

- ◆ RCRA 40/29/49 CFR Training, 1994
- ◆ Hazcat Chemical Identification, 1996
- ◆ 40/49 CFR Transportation of Hazardous Waste, 1996
- ◆ ACS Statistical Analysis of Laboratory Data, 1999
- ◆ Applied Statistical Quality Control, 1999
- ◆ Leading Meetings Training, 2000
- ◆ Client Services Training, Loring, 2004
- ◆ Management Skills Training, 2004
- ◆ Leadership Development Program II, 2005, 2006, 2009
- ◆ Ethics in the Workplace, 2006-current (trained annually)

Patrick Garcia-Strickland
Technical Director

Qualifications Summary

Patrick Garcia-Strickland joined Eurofins Frontier Global Sciences in 2004 with over five years of experience in the environmental chemistry field. Now with over twenty years of experience, including seventeen years in trace metals laboratories, Mr. Garcia-Strickland is currently the Laboratory Director/Technical Director at EFGS with direct oversight of over twenty technical personnel.

Mr. Garcia-Strickland has worked on several laboratory improvement projects including implementation of Eurofins Frontier Global Sciences first laboratory information system, capacity planning and analysis, LEAN initiatives, workflow optimization, reducing operational expenses, cost of goods sold analysis, and staff motivation and training. All of these projects have sought to provide the clients of EFGS with the highest quality, more timely, and more competitive priced specialty analytical services.

Mr. Strickland also serves as a project manager on several high profile, large volume projects in order to ensure that the customers of EFGS achieve their project objectives goals. He also oversees many of Eurofins Frontier Global Sciences method development tasks associated with the creation of new sampling and analytical techniques. With experience in sample collection, field investigations, sample preparation, sample analyses, project management, data interpretation, and environmental regulations, Mr. Garcia-Strickland is well versed in trace metals chemistry and client requirements and expectations.

Professional Experience

Technical Director/LEAN PM - Eurofins Frontier Global Sciences, LLC. - 2019 to Present

LEAN Project Manager - Eurofins Frontier Global Sciences, Inc. - 2017 to 2019

Operation Manager - Eurofins Frontier Global Sciences, Inc. - 2007 to 2017

Laboratory Manager - Eurofins Frontier Global Sciences Inc. - 2006 to 2017

Project Management Group Leader - Frontier Global Sciences Inc. - 2005 to 2006

Chemist - URS Corporation - 2005

Project Manager - Frontier Global Sciences, Inc. - 2004 to 2005

Lead Chemist - Laucks Testing Laboratories - 2002 to 2004

Chemist - NCA Labs, 1999 – 2002

Projects

Response to Coal Ash Spill. Acted as Project Manager dealing with appropriate analytical techniques to measure various arsenic, selenium, and mercury species in ash, sediment, and

Patrick Garcia-Strickland
Technical Director

biological tissue and surface water samples. Provided overall technical oversight on the project for analytical techniques use and development.

Teck and the Upper Columbia River. Acted as Project Manager dealing with appropriate analytical techniques to measure various arsenic species in biological tissue and surface water samples. Provided overall technical oversight on the project for analytical techniques use and development.

FDA Surveys of Low Level Metals in Cosmetics. Acted as Project Manager dealing with appropriate analytical techniques to measure various low level metals in different cosmetic samples. Provided overall technical oversight on the project for analytical techniques use and development. To date when published this study will be the largest ever accomplished survey of metals in cosmetic samples with the ultimate outcome to affect policy decisions on regulations of contaminants in cosmetics.

Analytical Method Development for Low Level Metals in FGD Wastewater. Acted as Project Manager dealing with appropriate analytical techniques to measure trace mercury and other metals in FGD wastewater samples. In conjunction with the US EPA provided new analytical techniques development for the use of an ongoing survey of metals concentrations in these unique samples.

Analytical Method Development for Metals in Hydrocarbon Samples. Oversaw the process of implementing appropriate analytical techniques to measure extremely low levels of metals including arsenic, selenium, and phosphorus in hydrocarbon samples.

Analytical Method Development for Vanadium Speciation in Refinery Wastewater. Oversaw the process of implementing sampling, preservation, and analysis techniques to measure various vanadium species throughout refinery wastewater processes.

Analytical Method Development for Arsenic in Natural Gas. Oversaw the development process for suitable sampling materials as well as analytical techniques to measure arsenic in natural gas.

Selenium Speciation Method Development. Acted as Project Manager dealing with appropriate analytical techniques to measure various new selenium species in biological tissue samples to meet risk assessment objectives.

Selenium Speciation Study. Acted as Project Manager dealing with appropriate analytical techniques to measure various selenium species to optimize treatment of selenium using a bioreactor treatment system.

Former Navy Landfill in Washington State. Acted as a project chemist with overall chemistry oversight on the application of current analytical methods for analysis of various trace metals constituents. Specialized analytical applications due to saline intrusion of affected groundwater.

Confidential Pharmaceutical Client. Acted as a project chemist with overall chemistry oversight on a confidential project dealing with the regulatory implications of land application of ferric ferrocyanide as well as appropriate techniques for analysis of metal cyanide complexes.

Patrick Garcia-Strickland
Technical Director

Puerto Rico Waste Water Treatment Plants. Acted as Project Manager dealing with appropriate analytical techniques to measure ambient trace metal contaminants in open ocean waters, near shore sediments, and biological tissues. The project involved analysis of several thousand samples annually and required extensive planning in order to achieve the client's objectives.

Surface Water Monitoring in the State of Louisiana. Acted as Project Manager dealing with measurements of trace metal contaminants in fresh water and brackish water impacted surface water bodies in the state of Louisiana. Measurement of parts per trillion trace metals was required in order accurately compare concentrations to surface water standards. The project involved analysis of up to one thousand samples annually.

Education

- ◆ B.S. in Chemistry – University of Washington (2003)

Professional Affiliations

- ◆ American Chemical Society
- ◆ ASTM Technical Committee on Selenium speciation Methods (2009) Panel

Publications

- ◆ Carl Hensman, Eric Prestbo, Lucas Hawkins, Deb Cussen, Patrick Garcia-Strickland. 2009. WERF Report 04-CTS-7T, "Minimizing Mercury Emissions in Biosolids Incinerators".

Justin McKell
Volatiles Department Manager

Qualifications Summary

Mr. McKell has been in the environmental laboratory testing industry since 2015. His current responsibilities include ensuring on-time data delivery, method and QA compliance, purchasing of all supplies, hiring of staff, ongoing training, employee reviews, collaborating with analysts, project managers and clients to ensure project cohesiveness, managing all samples from time of receipt until time of disposal. He also performs GCMS volatiles analysis, maintenance, peer review of data and troubleshooting instrument issues.

Professional Experience

Volatile Department Manager – Eurofins Frontier Global Sciences - 2017-present

Responsible for the daily operations of the Volatile department, including purchasing of all supplies, hiring of staff, ongoing training, employee reviews, collaborating with analysts, project managers and clients to ensure project cohesiveness, managing all samples from time of receipt until time of disposal. He also performs GCMS volatiles analysis, maintenance, peer review of data and troubleshooting instrument issues.

Volatile Organic Analyst – 2016 to 2017

Primary duties include preparing and assisting in the analysis of samples using GC/MS, GC/FID. Assists in maintaining instrumentation, preparing analytical standards and recording the standard information in the LIMS.

Wet Chemistry Analyst – 2015 to 2016

Performs lab tasks including preparing samples using standard techniques, performing chemical analysis using standard techniques, calculating data, recording and reporting data and any unusual test occurrences to the supervisor, performing routine maintenance of instruments and conforming to lab QA/QC practices.

Education

- ◆ MS in Analytical Chemistry – University of Washington – 2014
- ◆ BS in Chemistry – Brigham Young University - 2013

Professional Training

- ◆ Ethics in the Workplace – 2015 to current (trained annually)