

# **Albert A. Iannacone**

**Associate  
Waste Science Inc.**

## **PROFESSIONAL MEMBERSHIPS**

American Chemical Society, Environmental Division  
American Public Health Association, Environment Section

## **PROFESSIONAL EXPERIENCE**

### **Environmental investigation/Remediation Projects**

- Served as program chemist for remedial activities at Chanute AFB, Rantoul, IL under a contract with the Air Force Center for Environmental Excellence (AFCEE). Duties include all aspects of chemical support for investigation and remediation of the base, including landfills, fire training areas, waste storage areas, USTs, rocket engine testing cells, etc. In addition to preparation of documents, subcontracting for analytical support (seven-figure analytical budget), laboratory audits, data validation, etc., Mr. Iannacone served as the primary technical resource for Air Force personnel in meetings with the public and the US and Illinois EPA. He spearheaded development of improved analytical methods for herbicides now being adopted nationally.
- Served as project chemist for various ARCO facilities in the Midwest. Provided technical expertise to the program manager; evaluated data prepared planning documents and reports.
- Project chemist for closure of flashing pits and burning cages at the DOE Pantex nuclear weapons facility. Audited subcontracted lab, monitored laboratory timeliness, cost, and data quality. Recommended modifications to EPA volatile organic compound (VOC) analytical methods for analysis of non-routine compounds at the site.
- Provided technical expertise for "data salvage" operation at Aberdeen Proving Ground, Maryland. Site investigation included non-routine compounds such as dioxins/furans, chemical warfare agents, and explosives; data was independently validated to evaluate contractor performance.
- Evaluated chemical and radiochemical data, prepared a QA project plan and SOPs for the validation of data to meet DOE requirements for remediation contractor at Oak Ridge, TN.
- Project chemist for site where a rural KS town's municipal groundwater supply was contaminated by grain fumigants and dry cleaning solvents.
- Identified deficiencies in project plans and recommended improvement to overcome the problems; evaluated data in support of proposed field screening methods for site use; reviewed site technical submissions and supporting data for the Former Nebraska Ordnance Plant, Mead, Nebraska.
- Provided technical support in planning sampling strategies, monitoring performance of subcontracted laboratories, validation of data quality, and evaluation of overall project data usability for projects such as remediation of several Midwestern coal gasification plants from the late 19<sup>th</sup> / early 20<sup>th</sup> century, remediation at the Marine Corps Air Station Yuma, AZ, and a multiparty Wichita, KS site with groundwater contaminated by both a railroad switching yard and industrial facilities.
- Provided environmental chemistry and biochemistry expertise to a USACE contractor for the bioremediation of the Mahoning River in Ohio.

## **Summary of Experience and Accomplishments**

Mr. Iannacone is an environmental professional with over 20 years of technical and management experience in analytical and environmental chemistry, in industrial and regulatory settings. His areas of expertise include QA/QC, pollution prevention, and environmental compliance. He has extensive experience in explaining technical issues to non-technical personnel in an understandable manner; in formal and informal settings; verbally and in writing.

He has managed an industrial chemical laboratory supporting a national sales force of 50+ and QC for four production locations, subject to EPA audits. His TQM team reduced product rework rate nine-fold, generating six-figure annual savings, as part of a pollution prevention program. He was a resource for emergency response personnel in the event of chemical product incidents.

Mr. Iannacone has performed and managed data validation, laboratory audits, performance audit sample production and QC and data management; preparation/review of plans and reports; shelf life studies, and laboratory studies to optimize wastewater treatment. He worked with regulators and industrial firms achieving cost-effective, timely environmental cleanups meeting EPA and state criteria. He has performed statistical data evaluations and is experienced in a wide range of analytical methods and quality protocols, using ASTM, EPA and other mandated procedures.

## **Education**

M.S., Chemistry, University of North Carolina, 1983

B.S., Chemistry, LaSalle University, 1981

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- Resource person (subcontracted consultant) to EPA contractors for development and review of work plans, sampling and analysis plans, QA plans, and assessment of environmental investigation and compliance data.
- Consultant to a DOE contractor for chemical and radiological analyses and data validation at several DOE facilities in the Eastern US.
- Provided rapid-turnaround technical support to a USAF contractor when their in-house expert was unexpectedly unavailable due to a medical emergency.
- As vice-president of QualTech Environmental, conducted marketing, supervision, management, web page development, and other business-related activities, with the firm's president and independently.

**Quality Assurance Activities as EPA In-House Contractor:**

- QA/QC Coordinator for EPA laboratory in-house contractor. Ensured all analyses were performed according to required methods and data met QC specifications. Supervised development and regular review/revision of SOPs for all of the contractor's site operations.
- Developed guidelines for evaluation of data from RCRA trial burns of hazardous waste in cement kilns, and the evaluation of resulting data, including dioxin data.
- Provided guidance to the EPA remedial project manager (RPM) in the development of the technical elements of the consent decree for 36 PCB-contaminated natural gas pipeline compressor stations. Met routinely with the RPM and on-site personnel to plan activities and address concerns, and provided ongoing daily review of PRP mobile laboratory data packages submitted to the EPA during investigation and clean-up activities. The very rapid pace of the work resulted in favorable local press coverage for the EPA. Received a letter of commendation from the EPA RPM, who was named 1993 EPA Region VII remedial project manager of the year for this project.
- Investigated the chemical literature to determine the best methods available to address unusual analytical situations for EPA Region VII. Specified the technical detail of analyses to be performed and performance requirements. Developed a computerized database of Specialized Analytical Services requests, and files of the analytical procedures for future reference; trained personnel in the procedures.
- Supervised identification of data fraud in 30 boxes of site data provided to EPA by a former polyethylene manufacturer, resulting in rejection of the data due to laboratory misconduct, which led to subsequent actions against the laboratory.

**Laboratory Management and Laboratory Auditing:**

- Developed applications of GC/MS for Knox County, TN air toxics monitoring laboratory for compliance investigations. Spearheaded internship program for local college students to gain environmental sampling and laboratory experience using the instrument.
- Performed numerous laboratory audits as a contractor to EPA, US Air Force Center for Environmental Excellence, and other government agencies.
- Developed, revised, or reviewed EPA Region VII SOPs for managing data, performing laboratory audits, performing field audits, and reviewing data packages. The documentation was instrumental in consistent production of products or services meeting EPA requirements by in-house EPA contractor, and in the ability of staff to be cross-trained for maximum efficiency in addressing EPA needs.
- Oversaw and guided the development and implementation of the EPA Region VII performance evaluation (PE) audit sample program, and wrote program SOPs, including SOPs for PE sample program management, PE sample shelf-life, and PE sample data evaluation and use.
- Managed state-certified industrial chemical and microbiological laboratory using a wide range of advanced instrumentation per EPA protocols.
- Provided QC oversight for over 300 products and four manufacturing locations for industrial water and wastewater treatment firm. Resource for data interpretation and problem-solving support for sales and management.

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- Primary contributor to a laboratory/manufacturing TQM team that reduced off-specification product batches from 27 percent to three percent of batches manufactured. This reduction was accomplished through improved training, manufacturing, testing and tighter raw materials controls, producing six-figure savings.
- On-call 24 hours per day as part of a chemical emergency action network for hazardous material incident response; served as laboratory MSDS coordinator.
- Conducted kinetic investigations of wastewater treatment processes, including catalyzed hydrogen peroxide, chlorine dioxide, and microbiological treatment, for numerous industrial clients.
- Managed upgrade of laboratory procedures and instrumentation, including budget, timeliness, instrument selection and laboratory layout/physical upgrades. Developed laboratory SOPs and QA manual.
- Successfully defended plant and laboratory against imposition of fines under FIFRA for mislabeling product, by demonstrating that EPA used inappropriate analytical procedures to determine noncompliance.

**Environmental and Analytical Chemistry:**

- Conducted kinetic investigations of wastewater treatment processes, including catalyzed hydrogen peroxide, chlorine dioxide, and microbiological treatment, for numerous industrial clients.
- Conducted chemical and microscopic analysis of ion exchange resins in high purity applications to determine cause of failure and recommend improved treatment/maintenance procedures.
- Analyzed chemical composition of scale from industrial boilers, and physical and chemical properties of fuel oils.
- Supervised and performed analyses of thousands of samples annually, on one-to-two-week turnarounds from industrial water and wastewater treatment accounts. Responsible for data quality, timeliness, cost, raw material and product QC, and certificates of analysis. Developed experimental shelf-life data for over 300 chemical product formulations.
- Prepared and analyzed soil and groundwater samples for full suite of EPA CLP parameters, and generated detailed documentation for EPA during investigation of Riverfront Park, Kansas City, MO, a former city landfill, which was later listed as a Superfund site.
- Prepared and analyzed air monitoring samples, microbiological samples, drinking water and wastewater treatment process samples for major Midwestern metropolitan utility.
- Conducted investigations of illegal waste disposal and investigations of public complaints regarding drinking water quality.
- Optimized and performed methods for analysis of sewage sludge and plant samples as part of joint municipal/University of Missouri research on sewage sludge application to cropland.

**Environmental Epidemiology/Risk Assessment:**

- Investigated potential environmentally-caused illnesses and cancer clusters in Knox County, TN.
- Monitored blood lead levels to confirm progress in elimination of lead-based paint as a threat to children's health.
- Investigated potential areas of risk to residential drinking water supplies from industrial facilities, using GIS.
- Performed activities for local implementation of homeland defense chemical and biological terrorism monitoring and defense program.
- Performed statistical evaluation of surveys evaluating health complaints and workplace conditions at the Weldon Springs, Missouri DOE site.
- Conducted risk assessments for Air Force and DOE facilities as part of contractor's technical team.
- For the EPA/ATSDR joint investigation of the Tri-State (MO/AR/OK) lead mining district and health effects on residents of lead mining activities, prepared the QA project plan for the investigation and made recommendations to EPA on analytical methods and numbers of samples to ensure statistically valid data. Later, supervised evaluation of data and reported on data quality and completeness.

### **PROFESSIONAL POSITIONS**

Associate, Waste Science, Inc.	2002 – Present
Environmental Epidemiologist, Knox County TN Health Dept.	2004 – Present
Vice-President, QualTech Environmental, inc.	2002 – Present
Consultant to ManTech Environmental Technology, Inc.	2002 – 2004
Senior Chemist, Jacobs Engineering Group Inc.	1994 – 2002
Senior Chemist, ManTech Environmental Technology Inc.	1989 – 1994
Analytical Group Leader, Olin Water Services (div. Olin Chemical Corp.)	1985 – 1989
Chemist, City of Kansas City, MO, Water and Pollution Control Dept.	1983 – 1985

### **Community Activities:**

(pro bono) Board of Directors, Coalition for the Environment (MO/KS/IL)	1985-1989
Judge / Coach for local Science Fairs and Science Olympiad Team	1988-2004

### **CONTINUING EDUCATION / SHORT COURSES**

- Statistical Process Control
- Total Quality Management (TQM)
- Engineering/Construction/Operations Hazard Management
- Chemical Emergency Action Network Training
- CERCLA Hazard Ranking System Process
- CERCLA Preliminary Assessment / Site Investigation
- Investigating and Remediating Contaminated Sediments
- Risk Assessment/Management/Communication
- Supervision of Technical Personnel
- Risk Assessment for Air Toxics
- Assessing Community Excellence in Environmental Health
- Introduction to GIS (ESRI)
- GIS Applications for Public Health Preparedness
- Investigations in Bioterrorism
- Psychological Effects of Terrorist incidents
- HAZWOPER training

### **PUBLICATIONS**

- Missouri's Groundwater: Protecting a Threatened Resource*, Coalition for the Environment (under a grant from the Joyce Foundation), 1988.
- Iron-Catalyzed Peroxide Oxidation of Phenolic Compounds in Wastewater Treatment*, Olin Water Services, Inc., 1987.
- Polymer-Bound Ruthenium (III) Tris(Bypyridine) Complexes for Photochemical Catalytic Generation of Hydrogen from Water – Synthesis and Electrochemical/Physical Properties*, Master's Thesis, University OF North Carolina At Chapel Hill, 1983.