
LONGENECKER and ASSOCIATES

Edgar Berkey, Ph.D.

EXPERIENCE SUMMARY

- 40 years experience with nuclear technology, environmental technology, project management, science, strategy, and policy issues associated with DOE Headquarters, numerous Weapons Complex sites, and national laboratories
- Strong and broad technical, organizational, analytical, and management skills; able to lead and participate in diverse teams involved with assessments, investigations, and problem solving in a government environment
- Ability to direct and conduct complex analyses of DOE environmental and technology challenges to produce implementable recommendations

DETAILED EXPERIENCE

2006 – Present Environmental and Energy Consultant, Pittsburgh, PA

- **Pacific Northwest National Laboratories (PNNL)** –Member Laboratory Advisory Committee; chair Environmental Technology Directorate Review Committee. Recognized as “tireless advocate” for science-based solutions, safety, and quality, and for focusing strategic efforts. Developed novel SWOT workshops based on best practices to improve strategies and action plans. LAC/ETD disbanded at end of 2007 due to upcoming procurement.
- **North Wind, Inc** – Chair of expert panel reviews assisting deployment of innovative remedial technologies at Hanford. **Ventana Capital Management** – As Executive Director for innovative energy and clean technologies worked to define new CA-based venture capital fund. **PDG Environmental** – Investigated and evaluated major investment opportunities in China for industrial and municipal wastewater treatment and water resources.

1997 – 2006 Concurrent Technologies Corporation (CTC), Johnstown, PA

- As Vice President, R&D, and Chief Quality Officer, directed dynamic growth (>20% annually) of energy and environmental business sector to over \$60 million per year. Led best-in-class Quality Program that achieved first simultaneous certification in the U.S. for ISO 9001 (Quality) and ISO 14001 (Environmental Management) for an R&D organization in 1998.
- Program Manager of multi-year, \$150 million technical services contract for National Energy Technology Laboratory (NETL). Led several advanced environmental technology assessments, including first congressionally-mandated External Independent Review of Hanford’s High Level Waste Vitrification Project when BNFL was prime contractor.
- For over 3 years, chaired nationally-recruited Groundwater-Vadose Zone Integration Project Expert Panel at Hanford, which significantly focused site’s groundwater remediation and monitoring efforts. Co-Director of first EPA-sponsored Groundwater Remediation Technologies Analysis Center; adjunct associate professor of Environmental Engineering at University of Pittsburgh.

- Member of DOE's Environmental Management Advisory Board (EMAB); chair of Technology Development and Transfer Committee and member of Science Committee; received DOE Award of Excellence from Assistant Secretary in 2002 and Distinguished Technical Contribution Award from Society of Technical Communication in 2006 for Subsurface Contamination Remediation based on DOE EM Science Program. Provided congressional testimony several times.
- Member PNNL LAC; chair and member of PNNL ETD Review Committee. Chair Environmental Technology & Engineering Review Committee at Idaho National Engineering and Environmental Laboratory (INEEL). Member: a) Environmental Advisory Committee (EAC), Savannah River Site, b) EPA Science Advisory Board (SAB), Environmental Engineering Committee, and c) External Review Committee of Accelerator Production of Tritium Project at Los Alamos. Conducted numerous assessments, program reviews, and strategy evaluations.

**1986 – 1997 Center for Hazardous Materials Research and National
Environmental Technology Applications Corporation, University of
Pittsburgh Trust, Pittsburgh, PA**

- Co-founder and President of two innovative non-profit organizations devoted to environmental technology development, education, training, and technology transfer. Contributed to Exxon Valdez spill clean-up, hazardous waste incinerator permitting, pollution prevention education, hazardous waste cleanup training, and new technologies. Staff grew to >110 people. Merged with CTC.
- Chair of Savannah River EAC; member DOE EMAB and EPA SAB. At request of DOE Assistant Secretary for EM, chaired strategic review of Idaho National Engineering Laboratory (INEL) program. Conducted assessments and reviews.

1981 – 1986 SynCo Consultants, Inc., Pittsburgh, PA

- Founder/President of consulting firm taking on cutting-edge environmental issues associated with national development of synthetic fuels from coal (Memphis, Conoco, and Westinghouse). Selected as first contractor to EPA Small Business Ombudsman with responsibility to draft EPA's first Small Business Policy.

1977 – 1981 Energy Impact Associates, Pittsburgh, PA

- Vice President of Westinghouse spin-out responsible for environmental impact statements on nuclear plants (Clinch River Breeder Reactor) and synthetic fuel plants; major successes achieved in permitting synthetic fuel plants.

1967 – 1977 Westinghouse Research Laboratories, Pittsburgh, PA

- Manager, Liquid Metal Technologies, and Senior Research Scientist developing new analytical technologies for sodium-cooled fast breeder nuclear reactors. Achieved international recognition for work, including chairing 1976 ANS International Conference on Liquid Metal Technology in Energy Production. Selected and trained to become a Westinghouse Nuclear Spokesman.

EDUCATION

- Ph.D., Engineering Physics (Major: Nuclear Science; Minors: Astrophysics, Physical Chemistry), Cornell University (Sigma Xi)
- B.S., Chemical Engineering, Stanford University, (With Distinction; top 5% of Engineering School; Phi Beta Kappa; Tau Beta Pi; Phi Lambda Upsilon)
- Executive MBA Program, University of Pittsburgh

PROFESSIONAL ASSOCIATIONS

- American Nuclear Society (Patron)
- Board Member:
 - **PDG Environmental** (asbestos & mold abatement, re-construction)
 - **Chester Engineers** (largest African-American-owned civil engineering company in U.S.)
 - **SanRx Pharmaceuticals** (start-up with low toxicity, oral dosing, anti-cancer drug)