



## CURRICULUM VITAE

### Ian Webber, Ph.D. Environmental Engineering Consultant

#### PROFILE

Dr. Webber is a highly motivated, personable and technical professional with national and international credentials. A successful and respected 30+year career as an Environmental Engineering professional. Demonstrated accuracy in research and assessment compliance of EPA and international environmental standards and regulations.

- Provides expert witness and litigation support to trial attorneys as a contract consultant in personal injury, negligence and wrongful-death law cases. Areas of specialization include, but are not limited to, occupational safety and health, environmental chemistry and site remediation technologies.
- Provides international consultation services to business and industry on environmental site assessments, remediation plans, analytical quality control and hazard waste disposal and storage.
- Provides regulatory compliance and on-site inspection consultation services to business and industry to ensure compliance with all applicable U.S. federal and state EPA requirements, and international environmental laws and regulations.

#### ACADEMIC CREDENTIALS

<b>D.Sc.</b>	International Ecoenergy Academy, Azerbaijan (1999) <ul style="list-style-type: none"> <li>▪ Doctor of Science</li> <li>▪ Honorary Professor of the National Academy of Sciences</li> <li>▪ Member of the National Science Advisory Board</li> </ul>
<b>C.Chem.</b>	Chartered Chemist - Providence of Ontario, Canada (1991)
<b>Ph.D.</b>	Nuclear Chemistry - Carleton University, Ottawa, Canada (1975)
<b>B.Sc.</b>	Chemistry and Physics - University of London, England (1967)
<b>A.R.C.A.T.S.</b>	Degree in Chemistry and Physics - Royal College of Advanced Technology, University of Salford, England (1967)

#### ACADEMIC AND PROFESSIONAL ACCOMPLISHMENTS

- Honorary Professor Doctor of Science degree - International Ecoenergy Academy, Azerbaijan, March 1999.
- Appointed to the Azerbaijan Science Advisory Board, March 1999.
- Initiated and developed the infrastructure for a national environmental laboratory in Azerbaijan.
- Recipient of the 1983 IEEE/IAS "Paper of the Year" Award for work on "The Safe Disposal of PCBs". Over 60 publications & patents.
- Invented four (4) chemical methods for the destruction of PCBs and dioxins, two field-test kits for PCBs in oils and a Mobile Oil Plant for PCB contaminated fluids.
- Invented technology for - Reclassification of PCB filled transformers & the reclamation of PCB transformer metals.
- Received National Science Foundation & US-EPA grants to investigate the "Chemical Destruction of Askarel fluids containing 70% PCB".
- Developed Indonesian laboratory QA/QC procedures and accreditation, Standard Operating Procedures, technical training and laboratory renovation for World Bank and Asian Development Bank loan programs.

## PROFESSIONAL EXPERIENCE

2000 - Present

### **Americana Safety Associates, LLC - Buffalo, New York**

Environmental Engineering Consultant

- Provides expert witness and litigation support to trial attorneys as a contract consultant. Areas of specialization include, but are not limited to, occupational safety and health, and environmental engineering issues.
- Provides consultation services to business and industry on environmental safety issues, concerns and abatement of hazards.
- Provides regulatory compliance and on-site inspection consultation services to business and industry to ensure compliance with all applicable U.S. federal and international requirements, laws and regulations.

1997 – 2000

### **Private Practice, Buffalo, New York**

Environmental Engineering Consultant

- Team Leader of technical specialists in higher education projects in Indonesia.
- Engaged in the development of eleven (11) Indonesian Universities. The Asian Development Bank funded the \$120 million project.
- Coordinated and supervised the project outputs of sixteen (16) international and Indonesian experts in the field of higher education.
  - Developed an innovative accreditation system for University laboratory Technicians, which has been adopted by the Government of Indonesia.
  - Initiated a business development plan for applied research at the Institute of Technology, Surabaya, as a resource Institute in Indonesia.
  - Proposed university policy for applied research and laboratory development.
  - Developed and taught a Quality Assurance course for the Chairmen of Departments and Laboratory Directors at ten Indonesian universities.
  - The Indonesian Ministry of Education has adopted guidelines written on quality assurance in university laboratories.
  - Over two thousand five hundred (2,500) pages of guidelines were written including laboratory quality assurance, applied research policies and procedures, Technician career development and three years of theoretical and practical courses for Technician training.
  - Taught a course on PCBs, furans & dioxins at the Institute of Technology, Surabaya.
  - Undertook comprehensive Environmental Assessments of industrial sites in the Philippines and in East Java.

1998

### **State Committee on Ecology, Azerbaijan**

European Union Advisor

- European Union Advisor to the Azerbaijan State Committee on Ecology and Nature Utilization Control concerning the development of a National Environmental Policy.
- The project involved strengthening the environmental policy making and management capacity of Azerbaijan. This included consideration of environmental economic issues, regional transnational air and water pollution, and the implementation of relevant international and regional environmental conventions, environmental assessments and related impacts.
  - Over 1,500 pages of reports were developed to provide the infrastructure for a National environmental laboratory.
  - The project was completed on time, within budget and in excess of expectations.
  - Appointed to the Azerbaijan National Science Advisory Board as Honorary Professor of the Institute of Plastics, Chemistry of the National Academy of Sciences.
  - Honorary Professor and Doctor of Science of the International Ecoenergy Academy, Azerbaijan.
  - Founding member of the anti-Dioxin Society of Azerbaijan.
  - Vice Chairman of an International Conference on 'The Generation of Dioxins and their

1998

**State Committee on Ecology, Azerbaijan**  
European Union Advisor

- Founding member, President and member of the Board of Directors, of Azerecolab, the environmental laboratory of the National Academy of Sciences.
- Visiting Professor of Chemistry at Baku State University. Taught a post-graduate level course on laboratory quality assurance and the analysis of PCBs.

1995-1997

**Indonesian Ministry of Environment**  
World Bank Advisor

- Chief Advisor to the Indonesian Ministry of Environment on Laboratory Development, Planning, Certification and Training, funded by the World Bank.
- Visiting Professor of Chemistry, University of Indonesia.
  - Over seven thousand (7,500) pages of reports were delivered either early or on time during the project. The Terms of Reference were extensively surpassed without an increase in budget.
  - Developed infrastructure for the development of sixty Government of Indonesia environmental laboratories.
  - Developed regulations for an Indonesian National environmental laboratory accreditation system.
  - Developed a survey of environmental pollution in Indonesia.
  - Established the Indonesian Laboratory Classification system for Environmental Laboratories and a Ministerial Interagency memorandum of understanding on laboratory development.
  - Detailed reports were produced for the Indonesian Ministry of Environment on Sampling Methods, QA/QC, and GLP.
  - Developed curricula, organized and taught sixty-seven training programs for QA/QC officers, Laboratory Directors, and Analysts.
  - Taught a course on the environmental chemistry of PCBs, furans and dioxins.

1988-1995

**Webber-Mann Laboratories**  
Principal, Environmental Engineering Consultant

- Chairman of Webber-Mann Laboratories, Inc.
- Acted as General Manager of Acres Analytical Limited.
- Responsible for the initiation, organization and certification of Webber-Mann Laboratories, Inc.
- QA/QC laboratory auditor and data validator.
- Technical consultant and Principal Scientist on research projects in collaboration with SUNYAB (University of Buffalo), ESI, Veritay, EPL and Fisher Environmental.
- Acted as PCB/furans/dioxins technical consultant and expert witness for several consulting engineering companies and law firms.
- Developed sampling and environmental monitoring plans for hazardous waste contaminated sites
- Wrote and supervised quality assurance project plans and site remedial actions.
  - Awarded an EPA research grant to develop my invention of a unique method for the room temperature destruction of high concentration (700,000 ppm) PCB fluids.
  - Member of the Editorial Advisory Board of the International Journal of Environmental Studies.
  - Awarded a New York State Science and Technology Foundation grant for the chemical analysis of oxidation products in transformer oils.
  - Developed new analytical techniques for oxidation products in transformer oils.
  - Developed QA/QC operating procedures to enable laboratories to become Department of Health (NYDOH) and Department of Environmental Conservation (NYDEC) certified.
  - Developed a new technology for the decontamination of wastewater. The system was proven for the decontamination of wastewater containing a very wide variety of persistent and toxic environmental pollutants, including PCBs.

1986-1988

**Envirosure Management Corporation**

Director, Research & Development

- Hazardous Waste Disposal Company.
- Responsible for all the chemical and scientific expertise throughout the Envirosure hazardous waste management sister companies.
- Responsible for the assessment of all new technologies to be used for the transfer, storage and disposal of hazardous wastes.
- Responsible for all research and development projects involving new technologies for use in the management of hazardous wastes.
  - Awarded a National Science Foundation grant for work on the chemical destruction of PCBs.
  - Designed a unique, state-of-the-art system for the PCB decontamination of transformers.
  - Wrote an EPA accepted plant operations and monitoring plan for a plant involved with the reclamation of PCB contaminated transformers.
  - Developed a solidification technique for the disposal of wastes contaminated with heavy metals.
  - Developed a \$10,000,000 per year aqueous wastewater treatment process to comply with the requirements of New York State Department of Environmental Conservation and the City of Niagara Falls.
- Responsible for the staffing and organization of the Company, business planning and budgeting.
  - Developed the Division into a fully qualified New York State Department of Health certified laboratory for the analysis of hazardous waste.
  - Developed the laboratory into a CLP facility approved by the New York State Department of Environmental Conservation.
  - Implemented QA/QC protocols and standard operating procedures in both the Certified Laboratory and the Plant Laboratory.
  - Responsible for the technical writing and content of a RCRA Part B operating permit for a hazardous waste treatment facility.
  - Wrote and had approved by the EPA, the QA/QC manual for a subsidiary company laboratory in Kansas City.

1984-1985

**American Standards Testing Bureau**

Vice President, Environmental Sciences

- Consulting engineering in the areas of the PCB/PCDF/PCDD decontamination of surface soils, analytical services for hazardous waste management and the development of new technologies for the management of hazardous wastes.
- Acted as General Manager of ASTB's Philadelphia branch office and oversaw the operations of a subsidiary company, Atlantic X-Ray Corporation.
  - Wrote the lead article for the 1985/86 edition of "Advances in Environmental Science", Gordon and Breach, Science Publishers on The Safe Disposal of PCBs.

1981-1983

**RTE Corporation, Wisconsin**

Director, Materials Research & Development

- Manufacturer of Transformers and Electrical equipment.
- Director of Materials, Research and Development.
  - Developed a national standard test protocol relative to the assessment of fire hazards in indoor transformers.
  - Recipient of the 1983 IEEE/IAS "Paper of the Year" Award.
- Engineering Manager (Fluids Division).
  - Invented a new chemical method for the decontamination and reclamation of oils containing PCBs;
  - Successfully developed a commercial scale PCB oil decontamination process. Awarded company stock.
  - Functioned as liaison with the EPA, EPRI, NEMA, UL and related agencies.

**1975-1981**

**British Columbia Hydro & Power Authority**, Vancouver, B.C., Canada  
Research Chemist

- An Electric Utility Company.
- Responsible for the conception, planning and direction of oil chemistry projects. Specific areas of responsibility included employee training, coordination of lab analysis, and evaluation of test results, management reporting and related matters.
  - Developed the >sodium= process for the destruction of PCBs in transformer insulating oil.
  - Received a \$10,000 award from the company in recognition of my contributions in the area of PCB decontamination.
  - Developed methods for the instrumental trace analysis of oils.
  - Developed a major transformer oil reclamation system.
  - Invented an accelerated method for the destruction of PCBs in oils; obtained external funding for a research program to investigate the radiolysis of PCBs using Strontium-90  $\beta$ -particles.
  - Organized a comprehensive workshop on "Medical Spectroscopy" as Chairman of the Vancouver chapter of the Society for Applied Spectroscopy.
  - Chaired a Canadian Institute of Chemistry National Workshop on "Industrial Trace Analysis".
  - Acted as consultant to IUPAC as Director of the Spectroscopy Society of Canada.

**1976-1981**

**Honorary Research Associate – Simon Fraser University**, Burnaby, B.C., Canada

**1975-1976**

**Post Doctoral Fellow – University of Victoria**, Victoria, B.C., Canada

#### **CURRENT AFFILIATIONS**

- Honorary President of Azerecolab, Baku, Azerbaijan.
- Member of the Editorial Advisory Board of the Intl. Journal of Environmental Studies.
- Vice-Chairman of an International conference on dioxins to be held in Azerbaijan in 2001.

#### **PROFESSIONAL MEMBERSHIPS**

- Editorial Board of the International Journal of Environmental Science
- Past Chairman - Spectroscopy Society of Canada, (SSC), Vancouver chapter.
- Past Chairman - Chemical Institute of Canada (CIC), Vancouver chapter.
- Past Secretary - CIC, Vancouver chapter.
- American Chemical Society
- Institute of Electrical and Electronic Engineers
- American Society for Testing and Materials
- Society for Applied Spectroscopy
- Association of Professional Chemists of Ontario.

#### **NATIONALITIES**

- British
- Canadian
- Resident Alien - United States of America

#### **AVAILABILITY**

Dr. Webber is available for nationwide and international assignments through Americana Safety Associates, LLC.