

Custom Client Solutions

Consulting and Expert Witness Services

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Technical/Marketing Expertise

Dr. Jolson's expertise includes batteries, gas detectors, and respiratory protection devices. He is an expert in laboratory safety and material safety data sheets. His work led to the development of products sold into the home safety, hospital, implantable, industrial hygiene & safety, medical, military, and mining marketplaces.

Current Work

Dr. Jolson supports product development and manufacturing organizations. He assists equipment users in selecting, calibrating, using, and placing batteries, gas monitors, and respiratory protection equipment. He assists law firms with accident, personal injury, product liability, and intellectual property disputes by providing literature review & evaluation, failure analysis & testing, forensic investigation, and expert witness services.

Prior Experience

As technical director of CSE, Dr. Jolson led teams that developed respiratory protection devices and multi-gas atmospheric air monitors. He worked with quality, purchasing, production, and sales personnel to improve product quality, solve manufacturing problems, and reduce costs enabled company sales to grow from \$6.8 to \$13 million/year.

As product manager for trace gas analysis with the Mine Safety Appliances Company (MSA) Instrument Division, Dr. Jolson was responsible for product management and analysis of emerging technologies for the detection of anesthetic agents, chemical warfare agents, explosives, illicit drugs, industrial toxins, mercaptans, pesticides, and VOCs. As applications laboratory manager, he was responsible for qualification testing, testing of competitive products, applications support, preparation of MSDSs, and laboratory safety. As sensor R&D manager, he developed a low-cost package for electrochemical toxic gas sensors and a low-power combustible gas sensor that anchored \$100 million/year in sales.

While with MSA's Catalyst Research Division, Dr. Jolson developed carbon monoxide, chlorine, ethylene oxide, hydrogen sulfide, oxygen, nitric oxide, and nitrogen dioxide sensing equipment. He coordinated a proposal preparation effort that led to a \$20 million award to setup and operate a battery facility for the U.S. Government. He contributed to cadmium-mercuric oxide, lithium-iodine, lithium-manganese dioxide, lithium-thionyl chloride, lithium-iron disulfide, and lithium-silver oxide battery technology.

Dr. Jolson has a Ph.D. in analytical chemistry from SUNY at Buffalo. He has 11 U.S. patents, 14 publications, 27 presentations, and chaired 1 symposium session.