

## ***EXECUTIVE MANAGEMENT***

**BRIAN J. KALAMANKA, PRESIDENT AND CEO.** Mr. Kalamanka has extensive experience in the field of nuclear, biological and chemical protective systems and applications and over twenty-five years of business experience.

Mr. Kalamanka serves as President and CEO of Modec, Inc., an industry leader in the development and production of decontamination systems used specifically for the mitigation of chemical and biological warfare agents. The Company has produced hundreds of decontamination apparatus systems for emergency response entities, fire departments and hospitals throughout the United States. The Company was awarded the first commercial license from Sandia National Labs for Aqueous Foams for the Decontamination and Mitigation of Chemical and Biological Warfare Agents. The Company was instrumental in supplying decontaminants to the Joint Services prior to the start of Operation Enduring Freedom and Iraqi Freedom.

The Company produced mobile personnel decontamination systems for the U.S. Army Chemical Surety Program for demilitarization of chemical weapons at Arsenals at all nine depots. Modec designed and produced the first-ever-mass casualty decontamination system for the nationwide Metropolitan Medical Strike Team. Modec, Inc. and Mr. Kalamanka provided a mass casualty decon system and technical support services to the Secret Service at the Summit of Eight and participated in the 1997 Federal Interagency Chemical Exercise. The Company also designed the first decontamination pad and hospital trauma system for the radiological decontamination procedures for Department of Energy weapons facilities and an integrated mobile CO2 blasting/decon system for the U.S. Air Force.

Modec, Inc. was extensively involved in supplying the Joint Services with decontamination equipment and formulations prior to Operation Iraqi Freedom. Modec's executive staff participated in a number of field trials as well as simulated military operations at Ft. Leonard Wood, Missouri. Here, Modec's CEO, Brian Kalamanka and its partner Global Ground Support, debrief General Tommy Franks at CENTCOM, Aug 2002.



In 1996, Mr. Kalamanka authored "Development of a Nationwide Deployment Plan for Mass Casualty Decontamination Systems" which was presented to Senators Richard Lugar and Sam Nunn, sponsors of the Weapons of Mass Destruction Act of 1996. The Plan documented the historical use and present threats of terrorism utilizing biological and chemical agents and demographic analysis. Mr. Kalamanka presented an abstract on the Mass Casualty Decontamination System at the International Nuclear Biological and Chemical Defense Symposium held at the Royal Military College of Science at Cranfield University in London, England in March 1997.

He also participated in the Fifth International Symposium on Protection against Chemical and Biological Warfare Agents held in Stockholm, Sweden in June 1995. Mr. Kalamanka was invited to participate at U.S. Public Health Services' 200th Anniversary Celebration and Exhibit held July 4, 1998 at Independence Mall in Philadelphia.

Modec has received national and local media coverage including television pieces done by Fox News, ABC, CBS, and Japanese broadcast companies. Articles on the Formulation and Modec have also appeared in the USA Today, Wall Street Journal, The Rocky Mountain News, National Fire & Rescue, Denver Post, and Boston Globe.



He participated in the Federal Agency Chemical Exercise held in New York City in November 1997, which simulated a chemical nerve agent attack. Coverage of this event was provided in the New York Times. Mr. Kalamanka has had actual DoD live agent training on emergency response, consequence management and decontamination procedures at chemical weapons depots throughout the country.

Modec has also developed other projects under contract for the National Oceanic Atmospheric Administration (NOAA), Idaho National Engineering Laboratory, Los Alamos National Laboratory, Lockheed Martin Technologies, Teledyne Brown Engineering, Nuclear Cardiology Services, Inc., DOE Fernald, Colorado State Highway Patrol, Westinghouse Hanford, Department of Air Force, and the Navy. The Company has also completed many projects for many municipalities across the country and private companies such as Amerada Hess, Lakehead Pipeline, Bechtel Environmental, Ceiba Gigy, Sterling Winthrop, TechniFlite of America, Linc Quantum Analytics, HAZCO Services, Inc. and ABB Environmental. He has overseen the registration process of the Company's products with the USEPA and USFDA.

Prior to becoming president of Modec, Mr. Kalamanka was Chief Operations Officer for Nuclear Filter Technology, Inc., Golden, Colorado, for three years where he was responsible for oversight of all manufacturing and service operations. This included manufacturing of carbon filtration systems used for transuranic waste streams produced by the DOE's weapons program. Many contracts involved initial feasibility research; design development, prototype creation, and ultimately manufacturing such as filter design research of kevlar filters for the DOE. Mr. Kalamanka executed the purchase of an analytical laboratory that was later qualified under the EPA Certified Lab Program. The Company's contracts were with groups such as Westinghouse Hanford, EG&G Rocky Flats, EG&G Idaho, INEL, Los Alamos, Livermore, DOE Sandia, Fernald, Oak Ridge National Lab, DOE San Francisco, Savannah River Plant, IT Corp., and Chem-Nuclear Services.

He served as a Manager for the emerging business services group for Deloitte & Touche, an international financial services firm in Denver, Colorado, where he specialized in emerging technology organizations. He also was a Vice President of a publicly held manufacturer and distributor of magnetic media in Colorado Springs, Colorado and previously worked for Eastman Kodak, Rochester, New York; Cedar Point Corporation, Sandusky, Ohio; and Broadbent Development Corp., Boise, Idaho. Mr. Kalamanka received a BS degree in Accounting from Bowling Green State University in 1982 and is a Certified Public Accountant.

## **BRIAN STARBUCK, CHEMICAL PRODUCTS MANAGER**

Mr. Starbuck has nearly 30 years of highly technical chemical industry expertise and is highly experienced in chemical and process analysis and quality control.

He has had a variety of professional positions at several organizations including the following: NanoProducts Corporation (Staff Chemist involved with the production of nanometer sized mixed metal oxide powders), Orica USA (Team Leader development of packaged explosive products), Rosemont Pharmaceuticals Corporation (Group Leader Raw Materials for solid dosage pharmaceuticals), Hauser Chemicals (Senior Chemist involving the production Taxol and other chemicals), and National Semiconductor (Senior Materials Engineer for processing controls).

Mr. Starbuck received his Masters in Chemistry at Oregon State University (Thesis: Ion pair liquid chromatography determination of Quaternary Ammonium Compounds) and a BS in Chemistry at the Colorado State University.

Mr. Starbuck brings a valuable amount of past experience for our customers that is unmatched. His expertise will enhance Modec's product offerings, applications and insure the highest quality of licensed products available today."

Brian Starbuck's email address is [bstarbuck@deconsolutions.com](mailto:bstarbuck@deconsolutions.com).

**James E. Tellman, Vice President and CFO.** Mr. Tellman serves as Vice-President of Administration / Finance and CFO of Modec Inc. With a strong business background derived through various industries and results oriented with proven performance. Mr. Tellman brings over 25 years of experience as a strategic fiscal manager and member of management teams. The company has improved its internal procedures in order to increase accuracy and improve efficiency. Both financial and compliance reporting systems have been redesigned to provide more meaningful and timely information.

Prior to becoming exclusively involved in Modec, Mr. Tellman was Regional Controller for Allied Building Products, East Rutherford, New Jersey for six years. As regional controller he provided quantitative direction and analytical support for five regional managers and 35 branch managers with over \$275 million in sales. Mr. Tellman also performed due diligence on numbers potential acquisitions in order to evaluate their financial viability and potential market synergies.

As Chief Financial Officer and Vice President of Resco Inc., Denver, Colorado, Mr. Tellman had responsibility for all financial, administration, insurance, information systems, human resources, legal and government compliance. He filled this role for over 13 years and was instrumental in the negotiation and completion of the sale of Resco Inc. to Allied Building Products. During his time at Resco Inc., he developed and implemented cash management programs, treasury programs, financing arrangements and investment strategies. He was instrumental in the strategic planning of the organization that resulted in the company's growth from \$10 million to \$80 million in sales prior to the company's sale.

Mr. Tellman served as a Manager in the audit department of Grant Thornton, LLP, an international financial services firm in Colorado Springs, Colorado. He concentrated in audits of varying size of both public and private entities. Other areas of emphasis included system evaluations, cash flow projections, financial forecasts, budgeting and

development of short and long-term strategic business plans. Mr. Tellman received a BS degree in Accounting from the University of Colorado in 1975 and is a Certified Public Accountant with membership in the American Institute and Colorado Society of Certified Public Accountants.

**Ron Pruett, Modec Production Manager.** Mr. Pruett has served as Production Manager of Modec since 1996. He was the lead supervisor for the production of the US Army Decontamination Systems project for Modec during 1992 to 1996. He oversaw production for several large custom projects including the CO<sub>2</sub> Decontamination system for the USAF, the Decontamination Pad built for Idaho National Laboratory, and over one hundred fleet decontamination units produced for HAZCO Services, Inc. Prior to working with Modec, Mr. Pruett worked as production manager for Glisson chemicals. His in-depth knowledge of decontamination apparatus and fabrication are important elements to producing the high quality units that Modec delivers to all of its customers.

**DR. MATTHEW W. BROOKS** has served as an independent consultant to Modec, Inc., for the past two years. Dr. Brook has obtained a BS in Microbiology, an MS in Entomology (Toxicology), an MS in Chemistry, and in 1993, he received his PhD in Chemistry from the University of Massachusetts, Amherst.

Dr. Brooks, was formerly employed as Senior Scientific Consultant at Jellinek, Schwartz, and Connolly, Inc. in Arlington, Virginia, serves as consultant to clients in the pesticide industry on the generation and interpretation of chemistry data and consults with clients concerning analytical results for trace analysis for nonpesticide chemical contamination. He provides advice to pesticide registrants on meeting EPA data requirements in the areas of product chemistry, environmental fate and residue chemistry and acts as a representative for clients to various committees, including the Organophosphate Market Basket Survey Task Force and the Pyrethroid Working Group. He oversees development of analytical methods, Good Laboratory Practices, study completion, report writing and submission to the Environmental Protection Agency (EPA).

Furthermore, Dr. Brooks is responsible for handling the chemistry requirements of the Environmental Management Practice Group. This includes consultation on the chemistry sections for Premanufacturing Notices (PMN's) for specific client compounds, determining potential categorization of a chemical via the Agency's Chemicals of Concern guidelines and aiding in designing test plans for High Production Volume (HPV) industrial clients.

For five years prior to consulting at Jellinek, Schwartz, and Connolly, Inc, Dr. Brooks was employed at FMC Corporation, Princeton, New Jersey, as Senior Research Chemist. He was Study Director for pesticide registration studies and analytical laboratory supervisor with seven direct reports. Duties included protocol preparation, supervising analytical phase and final report completion for submission to the EPA. He was responsible for field coordination of all pesticide trials. He produced methods utilizing supercritical fluid extraction and is evaluating the use of capillary electrophoresis for pesticide analysis.

Dr. Brooks represented FMC on the ARRI Market Basket Survey design team to produce a Market Basket study for OP and carbamate residues in food available in supermarkets and on the interindustry Pyrethroid Working Group to evaluate mechanism of action of pyrethroid compounds. He was responsible for method development for the determination of pesticide residues from a variety of biotic and abiotic matrices and for the development of novel pesticide extraction methods.

He supervised technicians utilizing state of the art analytical equipment to conduct GLP studies under EPA protocols. He has developed methods utilizing normal and reverse phase HPLC (4.6 mm and 1 mm microbore columns) and detection schemes requiring post-column fluorescence detection and UV absorbance detection (variable UV as well as photodiode array). Dr. Brooks upgraded departmental LIMS, served as a departmental computer troubleshooter and was a member of various mode of action study committees for the Discovery division.

From 1989 to 1993, while undergoing his doctorate studies in Chemistry, Dr. Brooks worked as Research Assistant in the Department of Chemistry at the University of Massachusetts, Amherst. There he conducted research on supercritical fluid analyses and combined gas and supercritical fluid chromatographs for multidimensional chromatographic analyses. He also served as consulting chemist to the Massachusetts Pesticide Analysis Lab, was responsible for method development for all non-routine pesticide residue cases. He taught classes in advanced separation science and chromatographic instrumental analysis.

From 1990-1991, while employed as Organic Lab Supervisor for Tighe and Bond in Westfield, Massachusetts, Dr. Brooks was responsible for supervising and conducting analyses as outlined in SW-846 for organic pollutants as required for CERCLA, RCRA, FWPCA, SDWA and for NPDES permits. He conducted methods under CLP protocols, conducted and troubleshot GC/MS analyses. He conducted and supervised a team of six for organic analyses as required for EPA protocols 624, 625, 8240, 8270, TCLP and 524.

As Chief Analyst for Massachusetts Pesticide Analysis Lab in Amherst, Massachusetts, from 1987-1989, Dr. Brook's duties included maintaining day to day operations of the state laboratory, supervising a staff of four to six, reviewing of analyses and reporting results to Massachusetts Pesticide Bureau. He also independently performed titrations, gas and liquid chromatographic analyses, gravimetric and other wet chemical analysis techniques.

In addition to his work as Chief Analyst at Massachusetts Pesticide Analysis Lab, he served as a Residue Chemist (1986-87) and Junior Chemist (1985-86) where he was responsible for method development and isolation of pesticide residues from complex matrices and analyzed pesticide formulations and misuse samples.

Dr. Brooks began his career in 1983 as a Research Assistant in the Department of Entomology, at the University of Massachusetts, Amherst, upon receipt of his BS in Microbiology. He used radioactive tracers to study Na/Ca exchange in squid neuronal microsomes. He analyzed foliage for pesticide residues using liquid-liquid extraction and gas and liquid chromatography. He analyzed pesticidal effects on non-adrenaline regulation and calcium uptake in rat brain synaptosomes using radiolabeled catecholamines and radiolabeled calcium chloride. Dr. Brooks also adapted logistic program from mainframe computer BASIC to microcomputer BASIC, wrote BASIC programs to utilize multipen color plotter, wrote BASIC programs to carry out statistical analyses, utilized mainframe computer packages to carry out more sophisticated statistical analyses.

Dr. Mathew Brooks has been published in multiple journals, magazines, and other publications. Following are just a few of the more than fifteen publications by Dr. Brooks. M.W. Brooks and P.C. Uden "The Determination of Abamectin from Soil and Animal Tissue by Supercritical Fluid Extraction" *Pesticide Science*, 43: 141-146, 1995; M.W. Brooks, S. Roy, P.C. "Extraction and Analysis of Diesel Fuel by SFE and Microbore SFC" *Journal of*

*Chromatography*, 637: 175-179, 1993; M.W. Brooks, J. Marshall Clark, J.R. Marion and W.M. Coli "Airborne Drift Residues Collected near Apple Orchard Environments Due to Application of Insecticide Mixtures" 46:829-836, 1991; and, M.W. Brooks and J. Marshall Clark "Homeostasis in the Action of Deltamethrin at Presynaptic Nerve Terminals" *Biochemical Pharmacology*, 38(14): 2233-2245, 1989.

Throughout his career, Dr. Brooks has given numerous presentations including "Chiral Chemistry and Chromatography and Its Applications in Pesticide Science" to the Association of Feed, Fertilizer and Pesticide Control Officials in Morgantown, West Virginia; "Extraction and Analysis of Carbosulfan and its Carbamate and Phenolic Metabolites and Dibutylamine from Oranges" at the ACS National Meeting in New Orleans; "Mode of Action of the Major Herbicides and Pesticides on the Market Today" at the Departmental Seminar at FMC; and, "Extraction of Azadirachtin from Soil and Insects by Supercritical Fluid Extraction" at the ASTM Meeting in Philadelphia, Pennsylvania.

