



4916 WOODBOX LANE
MECHANICSBURG, PA 17055

PHONE: 717-691-8025

FAX: 717-691-8028

EMAIL: JLL@KCFGROUNDWATER.COM

WEBSITE: WWW.KCFGROUNDWATER.COM



JAMES (JIM) LEWIS LOLCAMA

SPECIALTY/SKILLS:

Applied Hydrogeology, Karstic Systems;
Hydrochemistry

GEOGRAPHIC BASE: Harrisburg, PA area

TYPE OF COMPANY: S-Corporation

RESUMÉ

JAMES (JIM) L. LOLCAMA

EDUCATION BS (with Honors) in Geological Sciences, 1980, Brock University, Canada.
MS in Earth Sciences, 1983, University of Waterloo, Canada.

PROFESSIONAL QUALIFICATIONS Professional Geologist, Georgia No.1353, Pennsylvania No. PG003887.

PROFESSIONAL SOCIETIES Member, National Ground Water Association
Member, PA Council of Professional Geologists

PROFESSIONAL EXPERIENCE AND BACKGROUND **PRINCIPAL AND HYDROGEOLOGIST, KCF GROUNDWATER, INC.,
MECHANICSBURG, PA, JUNE 2000 TO PRESENT**

Mr. Lolcama's experience includes investigations and interpretations of water flow and contaminant transport through karst and fractured bedrock; geologic, hydrogeologic, and hydrochemical investigations of mining and cement manufacturing properties; technology development for stormwater disposal by direct injection into deep permeable karst; sinkhole collapse phenomenon and real property damage; assessments of radioactive waste disposal package designs in the US and Canada; computer simulation of

groundwater flow and chemical transport; advance design of hydrochemical removal mechanisms for water contaminants; engineering-support hydrogeologic investigations of leaking dams and high-permeability rock; litigation support and expert witnessing. He has participated in hydrochemical and hydrogeologic characterization and technical oversight programs for a number of different hazardous waste and radioactive waste disposal sites. He has supported nuclear waste disposal research programs in the United States, Canada, and Switzerland, in the areas of simulation of waste package designs and underground permeability testing and test interpretation. He has designed and has performed experimental and numerical testing of chemical compounds for scavenging metals from mine effluent and contaminated drinking water supplies. He has designed and executed a strategy for rapid assessment and screening of a large number of hazardous point-source releases within a watershed and has identified those highest risk sites for remediation. He has designed and assisted with characterization and testing of ground conditions, and flow characteristics for a deep bitumen-concrete grout curtain to halt massive flooding of a limestone mining operation. He has developed a technology-based approach for rapid locating of deep-lying flow conduits in bedrock to expedite the remedial characterization of water flooding in quarries and underground mines. Mr. Lolcama is currently providing hydrogeological professional services to the U.S. Army Corps of Engineers with regard to contamination at the Former York Naval Ordnance Plant in York, PA. He is also currently working with geotechnical engineers to design and construct a gravity drain injection well field capable of disposing of more than a 2 year storm volume by direct injection into epikarst bedrock. Mr. Lolcama provides expert witness services in the areas of groundwater flow, groundwater chemistry, and ground subsidence and collapse.

Mr. Lolcama is the author or co-author of numerous publications on the hydrogeology and water quality of karst and fractured bedrock aquifers; hazardous waste management; stormwater management by Class V injection well use; the hydrogeology of natural and man-made systems such as geologic repositories for nuclear waste disposal; long term performance of nuclear waste package designs; hydrochemistry of groundwater contamination; and simulation of the removal of chemical contaminants from groundwater using chemical modeling technology.

**S.S. PAPADOPULOS & ASSOCIATES, INC., BETHESDA, MARYLAND:
SENIOR HYDROGEOLOGIST, 1994-2000.**

Mr. Lolcama was responsible for business development in his area of practice, and provided SSP&A with substantial new clients and revenue in the areas of mine flooding management, hazardous mine site investigation and remedial assessment, and coal mine hydrogeology. Mr. Lolcama designed and managed a program of remedial characterization of flooding flow amounting to over 50,000 gpm to the largest open pit quarry in the Mid-Atlantic area. For a US Dept of Interior client, Mr. Lolcama headed and

assessment team which addressed contaminated mine drainage at 46 remote mining sites in southeastern Kentucky, and northern Tennessee.

INTERA, INC., AUGUSTA, GEORGIA: BRANCH OFFICE MANAGER AND STAFF CONSULTANT, 1992-1994., AND INTERA, INC., AUSTIN, TEXAS: STAFF CONSULTANT IN HYDROGEOLOGY, 1984-1992.

For the Department of Natural Resources of North Carolina, Mr. Lolcama provided technical oversight to the Southeast Compact low-level radioactive waste potentially suitable site program. For the Department of Energy at the Westinghouse Savannah River site, he served as project manager on two assessments of the risk to humans and the local ecology from formerly-used chemical seepage basins. And, he served as project manager on a study of three reinforced concrete radioactive waste disposal vault designs: the intermediate level non-tritium design; intermediate level tritium design; and the low activity waste design. For the Subsurface Advisory Team to Environment Canada, Mr. Lolcama conducted waste package performance assessments on metal clad nuclear fuel bundles.

GOLDER ASSOCIATES (EASTERN CANADA), LTD., TORONTO, ONTARIO: STAFF CONSULTANT IN HYDROGEOLOGY, 1983-1984.

Mr. Lolcama investigated heavy metal and radionuclide contamination occurrences in soil and groundwater. He worked with a team to conduct pneumatic permeability testing of fractured rock for seepage analysis, and contributed to the design, construction, and installation of soil resistivity probes, vibrating wire piezometers, nitrogen displacement pumps, and pan lysimeters at the City of Toronto Ontario - Keele Valley landfill.