

Leopold (Pol) Mairesse III
SubSurface Surveys & Associates, Inc.
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CAREER SUMMARY

Thirty-three (33) years of experience in the data collection, processing and interpretation of geophysical data as applies to the onshore, offshore and airborne exploration industries. I have provided managerial (Party Chief) and technical (Geophysical Technician) expertise supporting all phases of geophysical exploration around the world. At present I am the Vice President, and one of the Senior Geophysicist's, of a California based geophysical corporation involved in onshore geophysical exploration, environmental, engineering and forensic geophysical operations.

EXPERIENCE

SubSurface Surveys & Associates, Incorporated San Diego, California

Vice President, Senior Geophysicist

As one of the Principles of SubSurface Surveys I have a hands-on involvement in the day-to-day geophysical operations of our crews that perform surveys throughout the continental United States and abroad.

Primary responsibilities include, but are not limited to, administering the Health & Safety program throughout the company, managing the Forensic Geophysics Division and repair & maintenance of all geophysical equipment.

Spectrum-Gasch Geophysics Escondido, California

Director Forensic Geophysics, Geophysical Technician

While with Spectrum-Gasch I developed a series of oral presentations and slides concerning forensic geophysical applications. With my strong technical background I facilitated the company's ability to maintain and repair equipment in an in-house cost effective basis. Field operations that I was involved in include collecting 48-channel seismic reflection data (using conventional explosive charges), environmental surveys and forensic surveys.

The Geophysics Group Escondido, California

Project Geophysicist, Operations Manager

Multi-disciplinary functions included geophysical project logistics, office management, field repair technician, office accountant and Project Geophysicist. I was also responsible for the management, marketing, data collection and processing for the Water-Well Siting Division of The Geophysics Group. Geophysical methodologies included: Seismic (refraction/reflection), Controlled Source Audio Magneto-Tellurics (CS-AMT), Very Low Frequency (VLF), Magnetics, EM, Ground Penetrating Radar (GPR), Gravimetry and SP.

Geophysical Contractor San Diego, California

Independent Contractor

I provided the field expertise and technical support for geophysical exploration in locating fracture zones within hard rock terrain for the purpose of locating high-yield water wells throughout San Diego and Southern California. I was also called upon to operate, interpret and field repair GPR systems for various environmental and forensic projects throughout the United States.

Earthprobe, Incorporated San Diego, California

Operations Manager, Field Geophysicist

Maintained logistical and technical support for virtually all geophysical projects performed by Earthprobe, Inc. involving seismic refraction, GPR and electromagnetic (EM) methods. Projects included locating underground storage tanks (UST's), sensing buried waste and waste migration. I initiated and managed the Earthprobe contract to perform site reconnaissance (unexploded ordnance) on all U.S. bases on Guam.

Gardline Hydrographic Surveys Houston, Texas

Party Chief, Marine Technician

Managed all geophysical operations onboard various research vessels conducting high-resolution geophysical surveys, deep-sea coring projects and deep-sea seismic exploration projects in the Gulf of Mexico, Gulf of Alaska, Arctic, New Guinea and Singapore. Primary responsibility included day-to-day shipboard operations management of personnel and geophysical systems (128-channel seismic streamers, side-scan sonar, sub-bottom profiling, bathymetry, magnetometer, coring darts and remote operated vehicles (ROV's)) while at sea anywhere in the world. I also provided maintenance and repair of geophysical systems when needed.

Geophysical Contractor San Diego, California

Independent Contractor

I worked primarily for major U.S. oil companies and marine survey service companies around the world. Conducted marine geo-hazard surveys and marine search & survey operations in the Gulf of Mexico, offshore Nigeria, offshore Brazil, Pacific Ocean, Atlantic Ocean, Caribbean Sea and the Chukchi Sea.

General Oceanographics, Inc. (Nekton) San Diego, California

Seismic Systems Specialist, Party Chief

I joined Nekton when the company was expanding operations from 2-man submersible submarines into including surface marine geophysical operations. My background in collecting multi-channel seismic data (onshore) allowed me to help train personnel in all phases of digital seismic systems onboard various research vessels based out of San Diego. Primary functions were the training of personnel involved in the recording of 24 & 48 channel marine seismic systems such as the Texas Instruments DFS III, DFS IV, DFS V and the MDS-10. Seismic energy sources included 100 kilojoules Sparker systems, air-guns, 500-cubic inch water guns and the Exxon "mini-sleeve exploder".

After two-years of at sea operations I was promoted to Party Chief onboard the research vessel

“Bering Explorer” for conducting marine geophysical surveys along the western United States, Alaska and the Fiji Islands.

Geophysical Systems, Inc. Pasadena, California

Seismic Data Processor, Seismic Observer

I was trained in-house by Geo-Systems for the purpose of nighttime processing of seismic reflection data obtained by “Vibroseis” crews during the day. The seismic crews would collect 1024-channel seismic data that was to be processed in the field utilizing the Geo-Systems “Geocor IV” mainframe computer. Seismic data was fully processed while in the field to create 256-fold stacked seismic sections. Processing with the “Geocor IV” included CDP gathers, static corrections, velocity analysis, Vertical cross-correlation (VCC) and final stacking.

My later years with Geo-Systems were as a trainee in collecting “Vibroseis” data within West Texas, Kentucky, Utah and New Mexico.

Bendix United Geophysical Corporation Pasadena, California

Seismic Crew Technician, Jr. Observer

After completing training in cable and geophone repair at the main Pasadena offices (and enrolling in a United Geophysical sponsored correspondence course in basic electronics) I was sent to the Amazon Jungle region of Brazil to maintain seismic equipment on an exploration crew. Responsibilities included repair of geophones, cables and roll-along-switches on a seismic reflection crew.

After nine months in the Amazon jungle, I returned to the U.S. and worked as a shooter (seismic explosives detonation tech.) and later began training as a Jr. Observer on seismic reflection crews utilizing conventional and shaped-charge explosives as a seismic source. Areas of operation included Michigan, Utah, Texas and Wyoming.

FORMAL EDUCATION & SPECIAL TRAINING

Pasadena City College: General education with emphasis in geology and physical oceanography (1972) No Degree

Klein Associates, Inc.: Advanced technical training in Side-Scanning Sonar and Sub-Bottom Profiling Systems and repair. (1985)

Texas Instruments: Advanced technical training with the seismic Digital Field System (DFS) V system, Houston, TX (1980)

San Diego Fire Dept.: Heavy Rescue Systems certificate received in training with Rancho Santa Fe, Fire Station #4 (1992)

United Geophysical : Sponsored by United Geophysical for a correspondence course in “Basic Electronics” (1975)