RESUME

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EDUCATION:

The Pennsylvania State University State College, PA: Ph. D., Geophysics, 1974;
The Pennsylvania State University State College, PA: M. S. Physics, 1971.
Kutztown State College, Kutztown, PA: B. A. Physics, 1969.

AWARDS

1987: Alexander von Humboldt Award for work in TEM methods. Awarded by the Alexander von Humboldt Foundation, sponsored by University of Cologne, Cologne, Germany.

2001: Harold Mooney Award for technical excellence and innovation leading to the advancement of Near-Surface Geophysics. Awarded by the Society of Exploration Geophysicists.

EXPERIENCE

5/86 to Present: Interpex Limited, Golden, CO. President of small software development company offering "industrial strength" software to the geophysical and hydrological industry, for IBM PC and compatible applications.
Co-Founder of Interpex Limited. Primarily responsible for development of graphics and other utilities libraries, as well as applications programs. Developed applications programs for electrical, gravity, magnetic, and seismic refraction methods in geophysics. Developed inverse modeling programs for Hydrological applications which utilize leakage and partial well penetration methods.

10/82 to 5/86: Integrated GeoSciences, Incorporated, Golden Colorado.
Senior Scientist of small oil exploration contracting firm offering a new approach to solving oil exploration problems in difficult areas.

Totally responsible for development of software and hardware for deep electromagnetic exploration system and training in its use. Hardware includes square wave transmitters with power capabilities of 200 kW and portable microcomputer based synchronous receivers capable of measuring hundreds of nanovolts in the presence of several volts of of powerline noise. Software includes stand alone assembly language data acquisition software (several thousand lines of code for DEC LSI-11) and FORTRAN based, sophisticated data processing software, and fast data interpretation software.

Integrated GeoSciences went into a "low profile" mode in the Spring of 1986, due to the extremely low price of oil and never fully recovered.

6/77 to 5/85: Colorado School of Mines, Golden, CO. Assistant Professor, Geophysics Department.
Duties included both teaching and research. Teaching duties consisted of three graduate level courses in geophysical engineering: Geophysical Inversion Theory, Simulation of Geophysical Data and Principles of Geophysical Measurement. I developed these three courses in 1977, 1978 and 1979, respectively. Two of these required the students to complete a term project, which included a working computer program. I also taught the electrical field methods course four times during the summers. This was the largest department in the free world, and the graduate classes were comparatively large.

6/80 to 8/81: Group Seven, Incorporated, Lakewood, CO.
Consultant on permanent retainer. Responsible for development and maintenance of field acquisition software, including user friendly FORTRAN and interrupt driven assembly language programs, with documentation, for the DEC LSI-11 computers.

8/75 to 6/77: New Mexico State University, Las Cruces, NM.
Assistant Professor, Physics/Earth Sciences, Duties included both teaching and research. Teaching consisted of undergraduate physics and graduate geophysics courses. Research consisted of assessment of geothermal potential of the southwestern United States.

10/74 to 8/75 Cooperative Institute for Research in the Environmental Sciences (CIRES), Boulder, Colorado, Visiting Fellow, working with Dr. James R. Wait.
This was a one year post doctoral appointment with total research freedom. During this year, I succeeded in publishing seven papers on geophysical theory and numerical computer modeling.