

Ph.D. Geology, University of California, Santa Barbara, 1980
MS Geology, Arizona State University, 1975
BS Geology, University of Washington, 1973

GERALD K. VAN KOOTEN
Geologist

American Association of Petroleum Geologists
American Scientific Affiliation
Alaska Geological Society
President, Alaska Geological Society

PROFESIONAL EXPERIENCE

2000-present INDEPENDENT GEOLOGIST

Adjunct professor, Alaska Pacific University; Consulting geologist for North Slope, Cook Inlet, and remote basins in Alaska; member Restoration Advisory Board, Elmendorf Air Force Base; oil spill recovery studies; storage facility development.

1980-2000 STAFF GEOLOGIST, ARCO ALASKA, ARCO OIL AND GAS COMPANY

Broad experience in geothermal and hydrocarbon exploration and development for major U.S energy company.

- Field work - Conducted detailed and reconnaissance geologic mapping in the western U.S. and Alaska. Designed, coordinated, and supervised surveys integrating geology, geophysics, and geochemistry to evaluate geothermal and hydrocarbon systems. Evaluated resource potential in all sedimentary basins of Alaska. Extensive wellsite and drilling experience.
- Basin analysis - Responsible for systematic geologic compilations and evaluations of unexplored basins. Evaluated geologic and fluid history, estimated resource potential, and recommended exploration strategy.
- Prospect generation - Generated and presented numerous prospects in new and mature areas. Generated or promoted several new field discoveries over 100 MMBO in size.
- Fluid systems - Developed geochemical techniques to evaluate paleo-temperature and mixing models for geothermal systems. Modeled hydrocarbon and water systems in petroleum basins, performed full-field fluid modeling in the Prudhoe Bay Field.
- Leadership - Field party chief for 5 years designing, implementing, and operating multi-disciplinary field work in Alaska. Supervised basin analysis team of 18 geoscientists. Successfully directed new field equity study reporting to 6 companies. Proposed and monitored exploration and drilling programs. Supervisor and mentor to numerous summer interns and geologists. College recruiter for geoscience candidates

1999, 2000 ALASKA PACIFIC UNIVERSITY, ADJUNCT PROFESSOR, physical geology

1993, 1994 UNIVERSITY ALASKA ANCHORAGE, ADJUNCT PROFESSOR, gems and minerals

1986 CALVIN COLLEGE, MICHIGAN, visiting professor, petroleum geology

1978-79 FULBRIGHT SCHOLAR TO WEST GERMANY.

1977, 1978 UC SANTA BARBARA, instructor of mineralogy, X-ray instruments, and microprobe.

1973 ARIZONA STATE UNIVERSITY, engineering geology

1973-1976 GEOLOGIST, FIELD ASSISTANT - USGS

- USGS geologist in Reston, Virginia, conducting petrologic and geochemical study of granites in Yosemite National Park, California.
- Field mapping of granitic plutons in the Sierra Nevada Mountains, California.
- Field mapping of volcanic terrain in the Cascade Mountains, western and central Oregon.
- Mapping and geologic evaluation of Wilderness Areas in California and Oregon.

Awards

1978 FULBRIGHT AWARD (DAAD), GERMANY

1974-77 AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES SCHOLARSHIP (2)

UNIVERSITY OF CALIFORNIA GRADUATE FELLOWSHIP

PENROSE GRANTS (2)

Publications

Twenty-one publications in American Association of Petroleum Geologists, Geological Society of America, Alaska Division Geological and Geophysical Surveys, Contributions Mineralogy and Petrology, Journal of Petrology, USGS Professional Paper, American Geophysical Union, and others (list available separately).