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Stan is a geologist with broad international mineral and petroleum exploration experience in North and South America, Asia, Europe, and Africa. He began his career working for the Arizona Geological Survey as a state geologist and for Kennecott's Geological Research Group as a geological mapper. In 1981 he received funding from Exxon Research to follow up his field observations and ideas concerning ore-forming processes and plate tectonics with a time-space analysis of the Cretaceous-Cenozoic arc and metallogenic evolution of the southwestern US. In 1983 he co-founded MagmaChem Exploration, Inc as its president for the purpose of further advancing the Exxon research and soon developed a chemical classification of igneous rocks and mineral deposits that has helped lower exploration risk. He is also co-founder of the MagmaChem Research Institute. Stan's first love is geologic mapping, especially when he is able to integrate geochemistry, structure, mineralogy, isotopic age dates, and stratigraphy in the context of plate tectonics. He has extensive experience using structural fabric, fault kinematics and geochemistry to map fluid migration and trapping mechanisms. He has taught numerous seminars for the resource industries, government surveys and universities. Stan has been an author or co-author of more than 160 abstracts and papers and directly involved in 11 theses and dissertations sponsored by MagmaChem. Stan has directly contributed target design to the discovery of 20 economic gold-copper-silver deposits on 3 continents worth more than \$100 billion.

Stan earned his B.S. Degree in Philosophy and M.S. degree in Geology from the University of Arizona. He has presented and published hundreds of geological papers. He is a member and has served as an executive for numerous professional associations including the Arizona Geological Society (AGS), the Geological Society of Nevada (GSN), the Society of Economic Geologists (SEG), the American Geophysical Union (AGU), the American Mineralogical Society, the Canadian Mineralogical Society (CMS), and the Prospectors and Developers Association of Canada (PDAC), the Geological Society of America (GSA), the American Association of Petroleum Geologists (AAPG), and the Rocky Mountain Association of Geologists (RMAG).