



Stanley M. Howard

Stan was born on September 5, 1945 to Ross and Edith (Keimig) Howard in Torrington, WY. He received his Bachelor's Degree in 1967 and his Doctorate Degree in 1971 as a Metallurgical Engineer. During school he worked for the US Geological Survey, Kennecott Copper Corporation, and Dow Chemical Company.

He was a Research Fellow at Colorado School of Mines from 1967-1971. He moved to Rapid City in 1971 to teach at South Dakota School of Mines and Technology, a career which lasted fifty years. He served as the chair of the Department of Materials and Metallurgical Engineering from 1994-2000.

During this time, he was also an NSF Visiting Scientist at Stanford (1976-1977), President of Mintech, Inc. (1977-1982), President (1981-84) and VP (1984-88) of Group V Metals, Inc., and a consultant to Kerr-McGee Corporation (1986-87), the US Navy (1988-1991), Caterpillar Corporation (1992-2001), Oak Ridge National Lab (2003-2004), and the Department of Energy's Yucca Mountain Project (2004-2007).

His research activities have included chlorination processes for gold extraction, direct applications for geothermal resources, replacement alloys for beryllium alloys, thermochemistry of high-temperature liquid metals, carburization kinetics, and laser and friction-stir welding activities associated with the Advanced Materials Processing facility on the SDSM&T campus. In 1986 he co-founded Group V Metals, Inc that licensed technology used to produce the purest tantalum and niobium compounds commercially available in the world with customers in Japan and Europe. Stan was a member of Alpha Sigma Mu Honorary Society, The Society of Sigma Xi, an honored guest at the Kroll Institute Dedication in Golden, CO. In 2004, he received the Presidential Award and Benard A. Ennenga Faculty Award from South Dakota School of Mines and Technology.

Professor Howard was a member of AIME and its Member Society, The Minerals, Metals & Materials Society (TMS) since 1966. He held many volunteer leadership positions including Director of Publications, Financial Planning Officer, and Trustee of the TMS Foundation. In 2016 and 2019, he also served as President. In recognition of his volunteer service, he was awarded the Alexander R. Scott Distinguished Service Award in March 2021. He also received AIME's Mineral Industry Education Award in 2004.

Stan enjoyed reading, flying an airplane, making repairs at home, and playing piano and singing. In response to his written questions in preparation for his oral history capture by AIME in 2019, he stated "I find satisfaction in having learned the answers to all my questions from youth. That is amazing and gratifying."