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Chapter 1 : D Kirk Nordstrom

Questa Baseline and Pre-Mining Ground-Water Quality Investigation 4. Historical Surface-Water Quality for the Red River Valley, New Mexico, to

Nordstrom is recognized internationally for his research on acid mine drainage, radioactive waste disposal, geothermal chemistry, geomicrobiology, arsenic geochemistry, thermodynamics, and geochemical modeling. He has a B. With more than publications, he is particularly known for his measurement of negative pH in mine waters, his interpretation of mine water geochemistry, his evaluation and compilation of thermodynamic properties, arsenic geochemistry, and natural background concentrations at mine sites. Currently a senior scientist of more than 40 years experience with the U. Kirk Nordstrom is recognized internationally for his research on acid mine drainage, radioactive waste disposal, geothermal chemistry, geomicrobiology, arsenic geochemistry, thermodynamics, and geochemical modeling. He has consulted for numerous state, federal, and foreign government agencies, and advised 45 graduate students and post-docs. He has given short courses on geochemical modeling, arsenic geochemistry, geochemistry of acid mine drainage, and isotope hydrology in the US, Spain, Portugal, Canada, and China. He has lectured in 20 foreign countries. He has more than publications and is particularly known for his research on the geochemistry of acid mine waters, his evaluation and compilation of thermodynamic properties for aqueous speciation calculations, arsenic geochemistry, and natural background concentrations at mine sites. Other major research contributions include quantitative interpretations of aluminum and iron geochemistry in acid mine drainage, measurement of negative pH in acid mine waters, discovering the influence of fluid inclusions on groundwater chemistry in crystalline rock terrains of low permeability, measuring and elucidating the role of thiosulfate and polythionates in geothermal waters, evaluating the reliability of aqueous speciation computations, and bringing greater internal consistency to thermodynamic properties of water-mineral equilibrium reactions. Collins, published report Approaches to limiting human exposure to arsenic, *Curr. Modeling low-temperature geochemical processes: A new method of calculating electrical conductivity with applications to natural waters*, *Geochim. Issues in science, communication, and philosophy*, *Applied Geochemistry* [online]. *Issues in science, communication, and philosophy*, *Appl. Geochimica et Cosmochimica Acta*, v. Processes affecting speciation and isotope fractionation: Geological Survey Open-File Report , 84 p. Low-flow discharge and major solute chemistry: *Journal of Volcanology and Geothermal Research*, v. Thermodynamics and kinetics of water-rock interaction: *Journal of Geochemical Exploration. Earth and Planetary Science Letters*, v. Geological Survey Professional Paper , p. Lessons from the Questa Project: *Journal of Geosciences*, v. Geological Survey Professional Paper , chapter E8, p. Geological Survey Open-File Report , p. A study of mining-affected and undisturbed acidic drainage: *Environmental Science and Technology*, v. Quantification of solute mass loading for Red River, New Mexico: Geological Survey Scientific Investigation Report, , 44 p. Water chemistry of the Red River and selected seeps, tributaries and precipitation, Taos County, New Mexico, Geological Survey Scientific Investigations Report , p. Geochemical and reactive-transport modeling based on tracer injection-synoptic sampling studies for the Red River, New Mexico, Geological Survey Scientific Investigations Report , 63 p. Geological Survey Open-File Report , 94 p. Well installation, water-level data, and surface- and ground-water chemistry in the Straight Creek drainage basin, Red River Valley, New Mexico, Geological Survey Scientific Investigations Report , 84 p. Quality assurance and quality control for water analyses: International Mine Water Association, v. Mineralogical Association of Canada, v. Geological Survey Open-File Report Boston, Kluwer Academic Publishers, p. Processing and Environmental Aspects of As, Sb, Se, Te, and Bi, C. Formation and decomposition of thiosulfate and polythionate in Cinder Pool, J. Geological Survey on uranium mining, milling, and environmental restoration, *Technology 7*, Processes, Methods and Health Issues, G. Geological Survey on uranium mining, milling, and environmental restoration, *Proc. Geological Survey Open-file Report* , 45 pp. The origin of thiosulfate in hot spring waters, *Geochim. Survey Open-file Report* ,

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