



The Keystone Center Dialogue on the Potential Development of the Pebble Mine Science Advisory Committee Biographies

DR. MILO ADKISON is a Professor at the Juneau Center, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks. He has a B.S. in biological sciences from University of California, Davis, an M.S. in biological sciences from Montana State University, and a Ph.D. in fisheries from the University of Washington. He has also worked for the Biological Resources Division of USGS and as crew on a Bristol Bay gillnetter. He specializes in the quantitative aspects of management of Pacific salmon fisheries. Dr. Adkison has worked extensively on a wide variety of salmon fisheries, including the Bristol Bay fisheries. In addition, he co-teaches a graduate level field course in Dillingham on management of salmon fisheries and has facilitated several workshops in both Dillingham and Naknek on the potential effects of the Pebble Mine on Bristol Bay fisheries. He was born and raised in Dillingham, and fished in Bristol Bay on a drift gillnet boat for seven years.

DR. ELIZABETH ANDREWS is former director, Division of Subsistence, Alaska Department of Fish and Game, Juneau, Alaska. Her scientific background includes work in Alaska Native communities of the subarctic on the nature of mixed subsistence-cash economies and use of fish and wildlife. She has worked as a research associate in anthropology at the University of Alaska Fairbanks, and in government designing and overseeing research studies on patterns of subsistence uses in Alaska since 1975. She is particularly interested in subsistence adaptations and sustainable livelihoods in remote communities and previously served on the National Research Council's Committee on Arctic-Yukon-Kuskokwim Research and Restoration Plan for Salmon. Dr. Andrews is the chair of the US/Canada Yukon River Panel established by the Pacific Salmon Treaty. She holds a B.A. from Mills College in Oakland, California and an M.A. and Ph.D. from the University of Alaska Fairbanks.

DR. RODERICK G. EGGERT is Professor and Director of the Division of Economics and Business at the Colorado School of Mines, where he has taught since 1986. Previously he taught at the Pennsylvania State University and held research appointments at Resources for the Future (Washington, D.C.) and the International Institute for Applied Systems Analysis (Austria). Between 1989 and 2006, he was Editor of *Resources Policy*, an international journal of mineral economics and policy. He has a B.A. in earth sciences from Dartmouth College, a M.S. in geochemistry and mineralogy from Penn State University, and a Ph.D. in mineral economics also from Penn State. His research and teaching have focused on various aspects of mineral economics and public policy, including the economics of mineral exploration, mineral demand, mining and the environment, microeconomics of mineral markets, and mining and sustainable development. He served for two terms on the Committee on Earth Resources of the U.S. National Research Council (NRC). He chaired the NRC committee that wrote the 2008 book *Minerals, Critical Minerals, and the US Economy* (National Academies Press).



DR. D. KIRK NORDSTROM is a Senior Hydrogeochemist of 30 years experience with the US Geological Survey. He has a B.A. in Chemistry from Southern Illinois University, an M.S. in Geology from the University of Colorado, Boulder, and a Ph.D. in Geochemistry from Stanford University. Dr. Nordstrom is recognized internationally for his research on acid mine drainage, radioactive waste disposal, geothermal chemistry, and geochemical modeling. He is known for his research on the measurement of negative pH in mine waters, his evaluation and compilation of thermodynamic properties for aqueous speciation calculations, and his research on natural background concentrations at mined sites. Dr. Nordstrom served on the Board of Radioactive Waste Management for the National Research Council, chairman of the Hydrogeochemical Group to the International Stripa Project, managing editor for geochemistry for *Earth-Science Reviews*, fellow of the Geological Society of America and the Mineralogical Society of America, member of American Association for the Advancement of Science, and International Association of Geochemists and Cosmochemists. He has consulted for numerous state, federal, and foreign government agencies.

DR. PHILIP VERPLANCK is a Research Geologist with the US Geological Survey, Mineral Resources Team in Denver, Colorado. He has a B.S. in geology from Tufts University, an M.S. in geology from Oregon State University, and a Ph.D. in geological sciences from University of Colorado, Boulder. He currently serves as project chief on studies of contaminants associated with mineral deposits. His research interests include application of trace element and radiogenic isotopic systematics to identify processes controlling water-rock interaction, determination of pre-mining baseline water quality in mining-affected watersheds, the fate and transport of metals in the alpine weathering environment, rare earth element geochemistry of acid waters, processes controlling the formation and preservation of ferricrete, and using inorganic geochemistry to constrain the fate and transport of emerging contaminants in urban wastewater.