

Ned Andrews, ISAC Member

Areas of Expertise for the PRRIP: geomorphology, sediment transport

Edmund (Ned) Andrews received a B.S. and M.S. degree in Geophysics from Stanford University and a Ph.D. degree in Geology from the University of California, Berkeley. He joined the USGS in 1975 and served as Chief of the River Mechanics Project within the Water Resources Division's National Research Program until his retirement in July of 2009. Subsequently, joined the Institute for Arctic and Alpine Research at the University of Colorado as a Research Professor, and, currently, is an Emeritus Faculty of INSTAAR. His research has focused primarily on the adjustment of river channels to an altered streamflow regime and sediment supply. This research has concerned a wide variety of rivers affected by various natural and anthropogenic impacts. The goal of this research has been to develop the analytical methods and approaches needed to maintain and restore the important geomorphic and ecological features of river channels. Ned was a principal investigator of the 1996 experimental flood released into the Colorado River through Grand Canyon National Park. Since 1988, Ned has served as an expert witness in court proceedings to support the establishment instream flow water rights for National Forests and National Parks in several Western States. This work has included Rocky Mountain and Zion National Parks, which were the first National Parks to be granted Federal Reserved Water Rights to protect recreational and aquatic resources. In addition, Ned has represented the Republic of India and Nicaragua on issues of river management before the International Court of Justice, The Hague. Currently, Ned is a scientific advisor to the State Prosecutor, Minas Gerais, Brazil concerning efforts to recover two long river reaches damaged by the release of 10's of millions of tons of tailings from iron mining. Ned has been a member of the Independent Science Advisory Committee since 2013.