1023-E1-59   **Charles Peter Funkhouser*** (`Charles.Funkhouser@mso.umt.edu`), University of Montana COT, 909 South Avenue West, Missoula, MT 59801, and **A. Duane Porter** (`adporter@uwyo.edu`), Mathematics Department, P. O. Box 3065, Laramie, WY 82071. *Native American-based Materials for Undergraduate Mathematics Courses.*

This session will present research on undergraduate materials based in the culture and mathematics of Native American peoples from the Western and Plains states. Mathematical topics include probability, number theory, transformational geometry, and preservice elementary and secondary education-related. These materials–both paper and electronic–are classroom-ready, and were developed and piloted in consultation with American Indian tribes in the Pacific Northwest, Rocky Mountain States and the Plains. This research is part of an ongoing DUE grant from NSF. (Received July 23, 2006)