Abstract Submitted
for the APR11 Meeting of
The American Physical Society

A Study of a Radon Gas Scrubber[1] XIAOYI YANG, ANDREW SCHMITZ, VINCENTE GUISEPPE, DONGMING MEI, University of South Dakota — Radon gas and its progeny are critical source of background for low background experimental devices. The required reduction of radon levels in air of the experimental area can typically be achieved with a radon scrubbing system. Various designs and techniques are commonly adopted in building a radon scrubber. For testing purpose, a single column system has been built at USD to study the radon-adsorption properties of activated charcoal. In this paper, we will demonstrate the working principle and test results.

[1]This work is supported by the NSF Grant PHY-0758120.

Chao Zhang
University of South Dakota

Date submitted: 14 Jan 2011 Electronic form version 1.4