Dear Committee Member,

My field of research is theoretical particle physics generally, with an especial interest in neutrinos. The Kimballton site offers a location for work that would advance greatly the goals of such kinds of research. I am working as a member of the Kimballton team to help make this a reality.

The features of this site that are particularly appealing include the possibility of siting sufficiently large detectors to study neutrino oscillation phenomena via long baseline techniques, the possibility of doing double β decay experiments, and the possible observation of nuclear instability via neutron oscillation. All of these experiments have direct bearing on the ultimate nature of neutrinos, and their roles in the violation of basic symmetries in particle physics. While other sites are also capable of carrying out such work, the Kimballton site offers the possibility of large caverns as support, and co-location of geoscience work, that offers the option of correlating matter effects on neutrino beams.

Sincerely,

Lay Nam Chang
Professor of Physics
Dean – College of Science
Virginia Tech