Discussion Points

Community Database:

Point 1: What does it mean to interface to GEANT4?

This could mean that we have the database build a material for the user and provide the code that 'makes' the material in GEANT. However, the consensus from the database developers is that this is getting a bit away from the scope of the intent of the database. The database was meant to provide information about measurements of U, Th, K and other contaminants. It also will provide information on the progeny of the sample. We may want to be more clear in the future when talking to GEANT developers that we provide information about samples, not material composition.

Point 2: Should we consider standardizing the way materials are input.

There was some discussion from the audience that the database could become cumbersome to use if there is not a standardized way that materials are input. For example, if you were looking for copper, you many need to search for copper or cu. If you were to look for resistors, would you search for resister or ceramic?

The developers noted that there was a desire to balance the difficulty of the data entry of new materials against the ease of search. We have standardized several field such as how you might refer to certain contaminants and units, but we have decide to leave the material entry as a flexible field at this time. We feel that having the information in a centralized database is a substantial improvement over the existing practice of needed to search multiple databases, papers and/or informal discussions to find measurements.

Evaluation of alpha-n reactions:

No discussion points to report.

Diana:

No discussion points to report.

TUNL Measurements:

No discussion points to report.