

**Meeting:** 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-85-650      **Alice L Loth\*** (aloth@westoverschool.org), Westover, 1237 Whittemore Road, Middlebury, CT 06762. *Modeling of Sky Brightness*. Preliminary report.

It has long been known that the brightness of a star affects our ability to see it, but what else affects the visibility of stars? This topic has applications in such diverse areas as navigation, meteorology, optics, biology, environmental science and astronomy. This talk will survey some theoretical calculations of celestial visibility and present a new model for sky brightness developed in Excel. (Received September 26, 2004)