

## Location of anomalously hot temperatures due to heat refraction

L. Guillou-Frottier, BRGM, France

Heat refraction effects occur in a number of geological systems,

but they may lead to distinct signatures....

....one consequence is that anomalously hot underground temperatures can be missed if we rely <u>only</u> upon heat flow and conductivity data....





Actually, geometry of the anomalous body must be considered....







On the poster :

- one example of heat refraction around quartzites
- one example of heat refraction near ash-flow calderas
- analytical and numerical models of heat refraction

