**SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY**

# Department of Materials and Metallurgical Engineering

Met 422 In-class Assisted Exercise Oct 28

1. Calculate the total heat loss rate from a 10-cm diameter Ag sphere at 800 K in air at 1 atm and 300 K.

2. Calculate the total heat loss rate from the top surface of a 10x10-cm horizontal flat plate at 800 K in still air at 1 atm and 300 K.