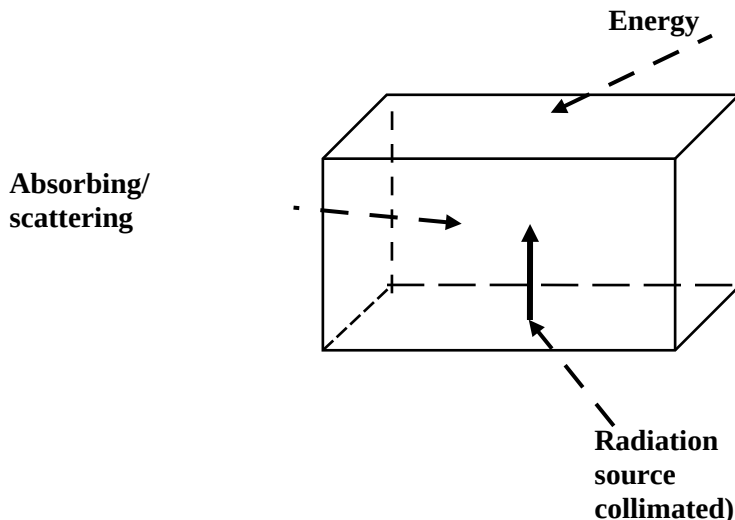


## Work Objective for Ben DalFavero Summer 2019 (7/1/19 – 9/31/19)

### Overall Objective:

To write a Monte Carlo program to simulate the distribution of radiative energy from a diffuse or collimated source through an absorbing/scattering medium



### Preliminary Reading

1. Understand the concept of absorption coefficient, scattering coefficient, extinction coefficient of an absorbing/scattering medium  
(Read Note 575\_Ch5\_11, section 5.1 to 5.5 only)
2. Understand the concept of radiative exchange, exchange factors, generic exchange factors, the zonal method and the generalized zonal method  
(Read Note 575\_Ch6\_11, paper zonal-method-takara, ppt. Ch5)
3. Understand the concept of Planck function, blackbody emissive power and surface properties (diffuse surface)  
(Read ppt. Ch4)
4. Understand the basic of the Monte Carlo Method  
(Read Monte-Carlo-Yuen, ppt. Ch6)

General Reference: R. Siegel and J. R. Howell, Thermal Radiation Heat Transfer, 5th Ed., Taylor and Francis, 2002 (newer editions are OK)

