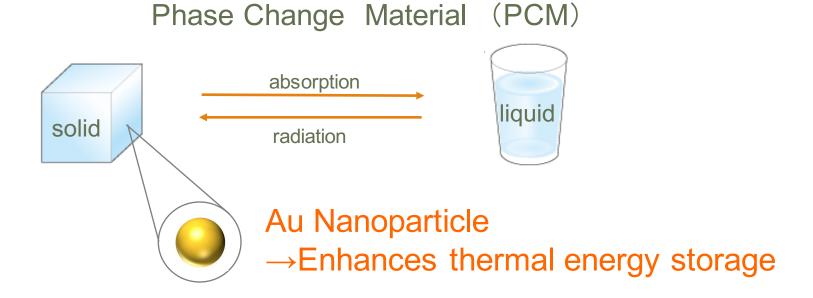
Temperature of a gold nanoparticle surrounded by a liquid film

Ruriko Haraguchi
University of Tsukuba
3/19/2016

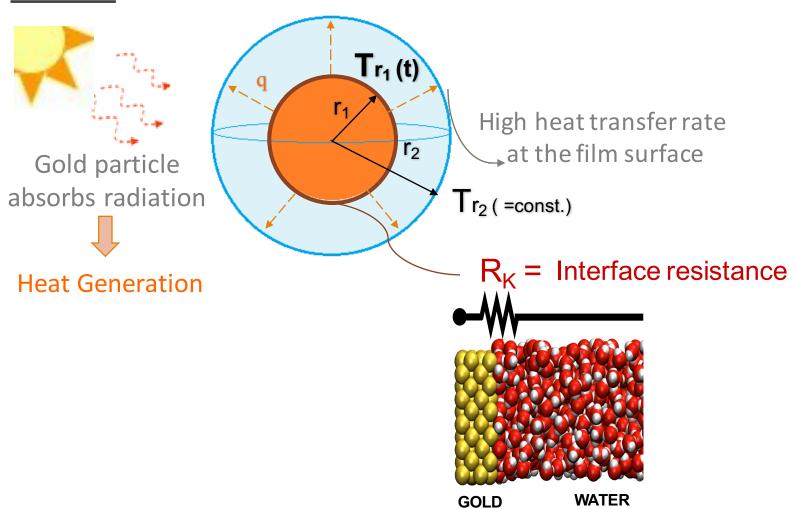
Background and Significance

Heat storage – Essential for renewable energy

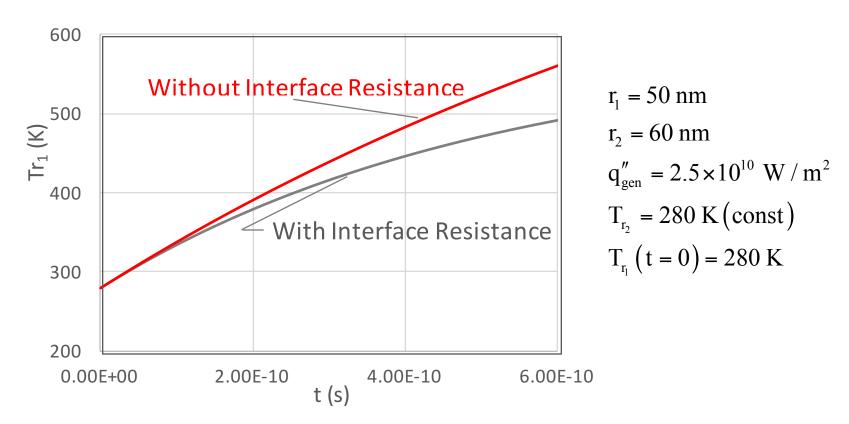


Temperature distribution of a nanoparticle is important to determine the optimum particle to use within PCMs

Model



Results and future works

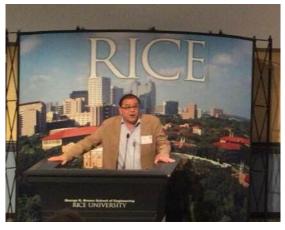


Future work

- Vapor layer between the nanoparticle and the liquid film
- Temperature change of the liquid film surface

Research in the US vs. Japan





US

- Graduate students from all over the world
- The value of diverse experience / education
- Same communication style for anyone

Japan

- Not many international students
- The value of consistency in education
- High presentation skills
 Presentations for the people in the same field
 - ▪The use of 敬語 -"Keigo"

Overall experience in Houston









