

Nuclear Engineering  
Camp 2005  
at the  
University of Missouri -  
Rolla

**Megan Thomas**

**Daniel Pak**

**Paul Rodi**

# Speakers

- **Nuclear waste disposal**
  - **Dangers of Radiation**
    - **Callaway**
    - **Hospital tour**
- **History of nuclear reactors**
  - **Nuclear Space**
  - **Food uses**

# Activities

- **Pizza Party**
- **Watching “BRAVEHEART” on the TJ wall**
- **Exploring the Campus**
- **Going to Sports and fitness center**
- **Volleyball at the park**
- **Pool and Foosball**
- **Videogames**
- **Staying in the dorms with a roommate**
- **Bowling**
- **Walking around campus testing the radioactivity of buildings**

# Presentations

- At the end of the week, each focus group created their own power point presentation.
- “Nuclear Power in Space”, “Alternate Fuels”, and “Next Generation Reactors” were just some examples of focus group presentations.



# Reactor Operations



In my focus group, we studied and presented on the Reactor Operations. My group was able to witness the blue glow effect twice because of our focus group.

Water in the reactor acted in four ways

1. Coolant
2. Radiation shield
3. Moderator
4. And reflector

We learned about the rules and regulations of the nuclear game.

The BIGGEST rule of all is SAFETY FIRST!  
(unlike our lovable Homer here)



# Experiments



- **Half-Life**
  - **Radiation Shielding**
- **Radiation Detection**
- **Two-Phase Flow**

# What We Learned...

