

**UNIVERSITY OF ILLINOIS**  
**DEPARTMENT OF NUCLEAR, PLASMA AND RADIOLOGICAL ENGINEERING**  
**NPRE 449 – Nuclear Systems Engineering and Design**

Homework #2

1. What are the two major types of HTGRs and describe them in terms of their defining characteristics?
2. Explain the key differences between HTGRs and LWRs including some pros and cons.
3. Why are HTGRs pressurized? Describe the implications.