Current Phase I Goals for Wisconsin

- **Program Element-3.2**
- **Deliverables-FY02-2.1 Chamber Modeling**
  - Calculate target threat spectra
  - Parametric analysis of chamber response
  - Detailed analysis of specific chamber designs
  - Design validation experiments for codes & data
  - Diagnose and interpret experiments that simulate chamber conditions
- **Funding-$498 k**
- **Deliverable-January 31, 2003**
There will be five related presentations:

- Graphite chamber issues and trade-offs (Haynes)
- CONDOR: a flock of “badgers” (Moses)
- W-armored ODS designs (Blanchard)
- How UW will support HAPL 3 year plan (Kulcinski)
- Validation of wall response models and interpretation of experiments on Z and RHEPP (Peterson (tomorrow))
The University of Wisconsin Will Support The HAPL 3-Year Plan on Chamber Development

- BAA-144, Area 2-Theoretical and experimental studies of the effects of laboratory thermonuclear explosions on the chamber walls

- Major research thrusts-Year 1
  - Improve threat spectra calculations
  - Expansion of design windows for dry wall chambers
  - Inclusion of CRE code in BUCKY for target threat spectra
  - Diagnose & interpret experiments that simulate chamber conditions
  - Begin point design of IRE chamber

- Funding-$500 k, (2 FTE plus 2 students)
- Deliverable-January 31, 2004
Wisconsin Will Support The HAPL 3-Year Plan on Chamber Development (cont.)

- **Major research thrusts-Year 2**
  - Improve threat spectra calculations for direct drive targets
  - Optimization of dry wall design windows for IRE
  - Diagnose & interpret experiments that simulate chamber conditions
  - Begin point design of IRE chamber
  - Design basis accident analysis for dry wall chambers

- **Funding-$520 k, (2 FTE plus 2 students)**

- **Deliverable-January 31, 2005**
Wisconsin Will Support The HAPL 3-Year Plan on Chamber Development (cont.)

- Major research thrusts-Year 3
  - Improve threat spectra calculations for direct drive targets
  - Detailed analysis of dry wall design for IRE
  - Diagnose & interpret experiments that simulate chamber conditions
  - Point design of IRE chamber
  - Design basis accident analysis for dry wall IRE chamber

- Funding-$540 k, (2 FTE plus 2 students)

- Deliverable-January 31, 2006