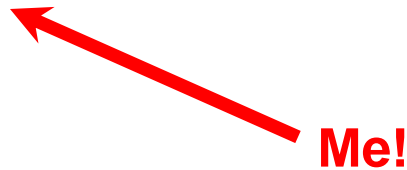


Welcome to the

DOE/DOD Workshop on
Emerging Architectures &
Applications

- **Workshop Sponsors**
 - Fred Johnson, Advanced Scientific Computing Research, DOE
 - Candy Culhane, DOD
- **Logistics Organizer**
 - Margaret Lyday, ORISE
- **Workshop Organizing Committee**
 - Bill Carlson (CCS)
 - Bruce Hendrickson (SNL)
 - John Johnson (LLNL)
 - Mike Merrill (DOD)
 - Jarek Nieplocha (PNNL)
 - Lenny Oliker (LBL)
 - Jeff Vetter (ORNL)



Principal Workshop Goal

- Determine what (if any) impact XMT and Cell-based supercomputers (and successors) could have on DOE and DOD applications.

How to Achieve This Goal?

(1) Identify applications that could benefit from HPC, but which for which current supercomputers are a poor match.

Application Experts

(2) Determine which aspect(s) of these computations are holding them back.

Computational Scientists

(3) Evaluate whether XMT or Cell machines would overcome these challenges.

(4) Dialogue & interactivity!

An Invitation

- We've undoubtedly missed important potential applications.
- Room on schedule Friday morning for a few more application talks.
 - Talk to me during a break
- Note: please don't talk about your successes. Instead, we want to know what your community can't do but wishes it could.