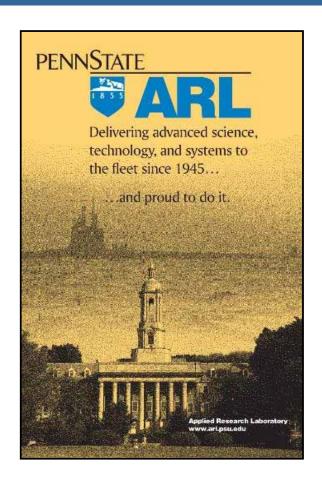


## Background / UARC Relationship



- Established in 1945 by the Navy post WW II
- Technology Areas
- Undersea Weapons
- Undersea Vehicles / UUV's
- Hydrodynamics and Structures
- Acoustics & Quieting

- Comms and Information
- Power and Energy
- Navigation
- Materials/ Manufacturing
- Largest Interdisciplinary Research Unit at Penn State – 1184 faculty/engineers, staff, students
- Classified facilities and programs to SCI
- Research Funding FY-17: \$220M
- Designated an University Affiliated Research Center by DoD in 1996

"...maintains a special long-term strategic relationship with Navy/DoD for technology development and engineering applications."



# Penn State Applied Research Laboratory Mission







#### Increase warfighter capability

- develop and demonstrate advanced S&T
- mature the technology from TRL 3/4 to TRL6/7
- transition technology to acquisition and to current systems
- design, deploy, and test new solutions

### Cost savings for acquisition and lifecycle

- new technology solutions and open standards
- proof of concept before commitment
- design for manufacturing and affordability
- cost / performance design trade tools

#### Education and Training

- filling pipeline of future engineers & scientists
- providing tools / expertise for training forces
- training manufacturers on new technology