

## *Alvin* Overhaul Report

- **Completed on schedule and budget**
- **Upgrades/Repairs/Inspections**
  - All components inspected & rebuilt
  - Variable ballast 4-way valve replaced
  - Motor controllers upgraded
  - 3-chip video upgrade on pan/tilt
  - Solid state relay upgrade
  - Frame repairs
  - Hull (dye penetrant, ultrasonic, X-ray); 2-yr limited inspection requirement in addition to 5-yr full inspection
- **Certification**
  - Functional audit
  - Certification survey
  - Sea trials (no “tempmods”)
  - Inclining experiment

