New ALVIN - Future Work

- Preparation of the Request for Proposal (RFP)
- Development of Materials Properties Testing Requirements
- Titanium Materials Properties Investigation
- Finite Element Analysis of SEA CLIFF to establish creep design criteria
- NADAC/community review of SOW / RFP
- NADAC / community review of hull interior mock-up
- Selection of prime contractor

Concept Development Status

Sphere Concept Design

- Material Ti 6Al 4V ELI
- Construction method forged hemispheres welded into a sphere
- Design rules ABS U/W Vehicles 2002 as modified by U.S. Navy design methodology used on SEA CLIFF
- General design 5 viewports
- Preliminary design finite element analysis completed
- Manufacturers located Quotes from 2 US & 1 foreign forger.
 Quotes pending from 1 US and 1 foreign forger.

Vehicle Concept Design

- Variable Ballast & Trim Sea water
- Energy Li polymer

