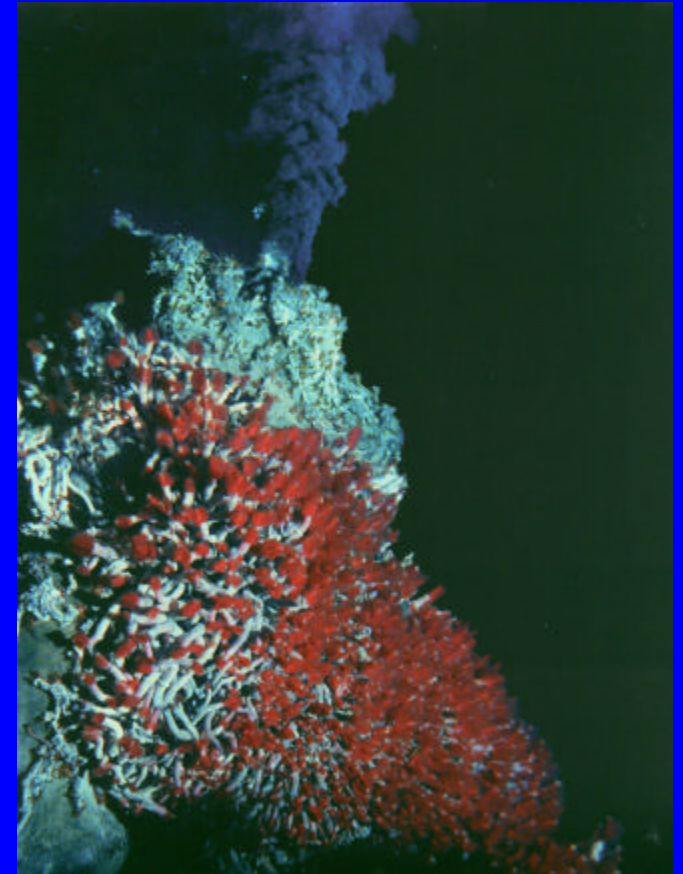


Deep Submergence Science Committee



Photo by Mitch Elend



Report to the RVTEC Membership

November 8, 2005

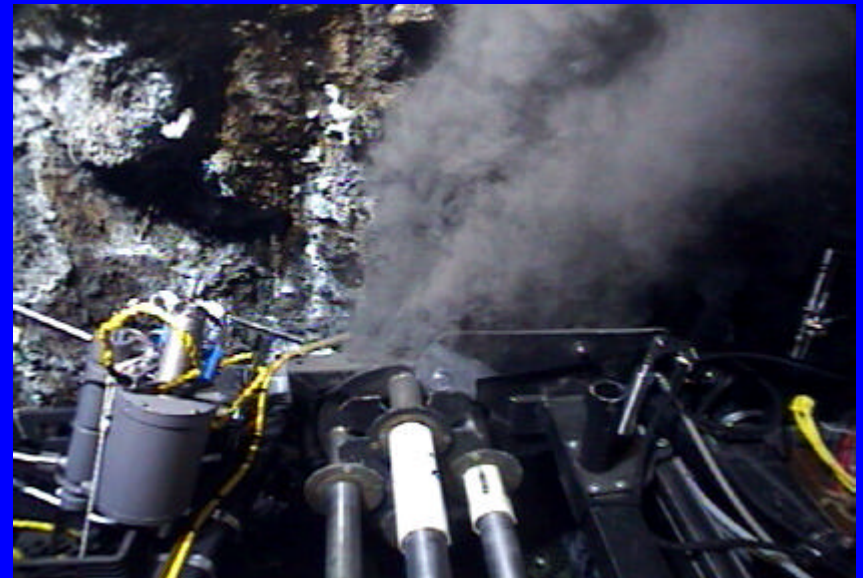
Issues and Activities – 2004 / 2005

Meetings:

DESSC Annual - San Francisco, December 12, 2004

Spring Meeting - WHOI, June 13-14, 2005

- **Reports from vehicle science users, Agency representatives, and NDSF Operator**
- **Status reports on NDSF Vehicle operations, tools and upgrades**
- **Vehicle Scheduling and Long Range Planning**
- **DESSC Activities:**
 - **HOV Safety Standards**
 - **Establishing Criteria for New Assets**
- **Facility Renewal**
- **Membership – one position open**



Rock Drill - Photo by Debbie Kelley

Safety Standards for Human Occupied Vehicles (HOVs)

Establish Safety Standards for the use of Human Occupied Vehicles:

- NSF and NOAA have provided a draft task statement to establish safety standards for HOVs.
- The safety standards should address certification of:
 - The vehicle
 - The ship
 - The handling system
 - The operation
 - Training (vehicle and ship crew)
- UNOLS action - form a subcommittee.



Photo by WHOI

Safety Standards for HOVs

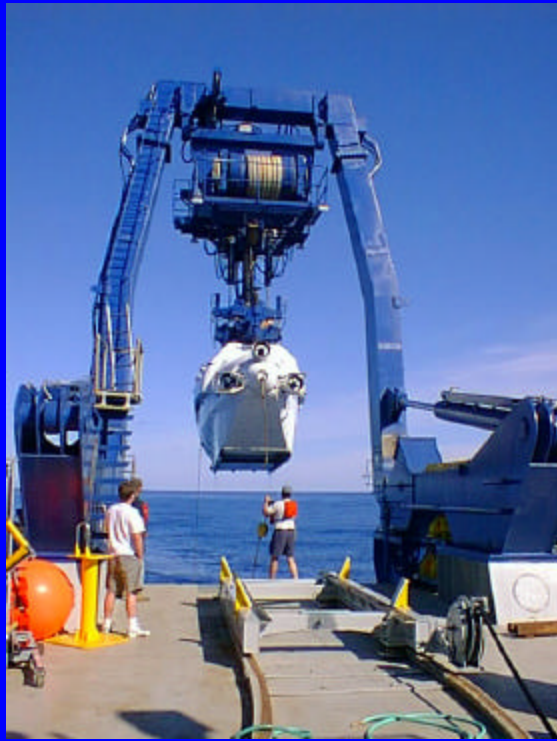


Photo by WHOI

Suggested Membership:

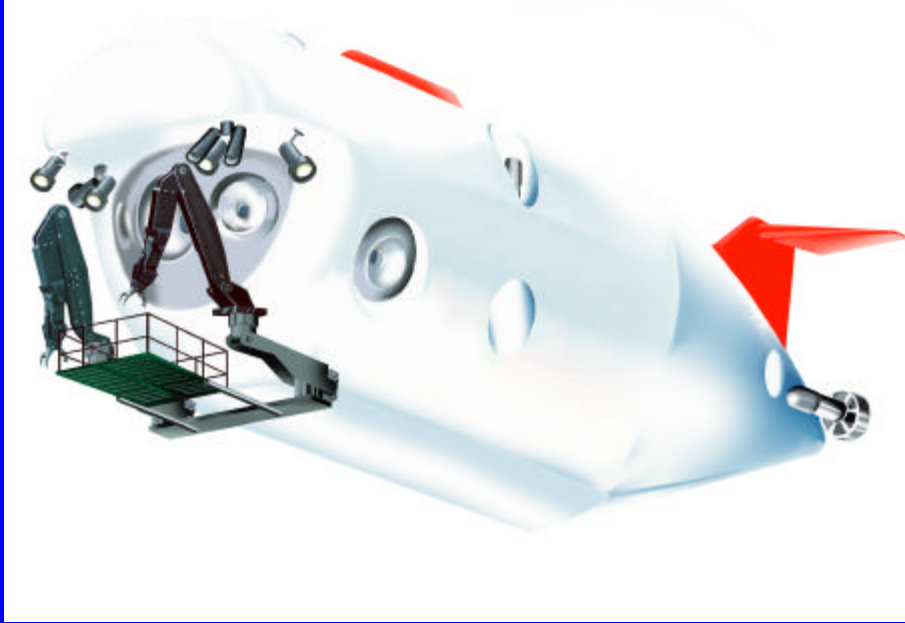
- Science users (including a DESSC rep)
- RVOC Safety Committee representative
- HOV operators from WHOI, HBOI, and HURL
- HOV pilots
- Marine Superintendent
- Ship Captain
- Navy representative (NAVSEA Certification)
- NOAA Representative

This effort might span 2 years.

Establishing Criteria for Transitioning Assets into the NDSF

- Background – In the coming years significant demand for new suites of deep submergence assets is anticipated. In response, DESSC has drafted criteria for transitioning assets in the NDSF.
- Some considerations:
 - Significant and broad demand for asset
 - Provides a unique capability
 - System is robust
 - Asset operation and support costs are affordable
- Pending revision, the draft criteria will be sent to the UNOLS Council for approval.

Replacement HOV – Design Update



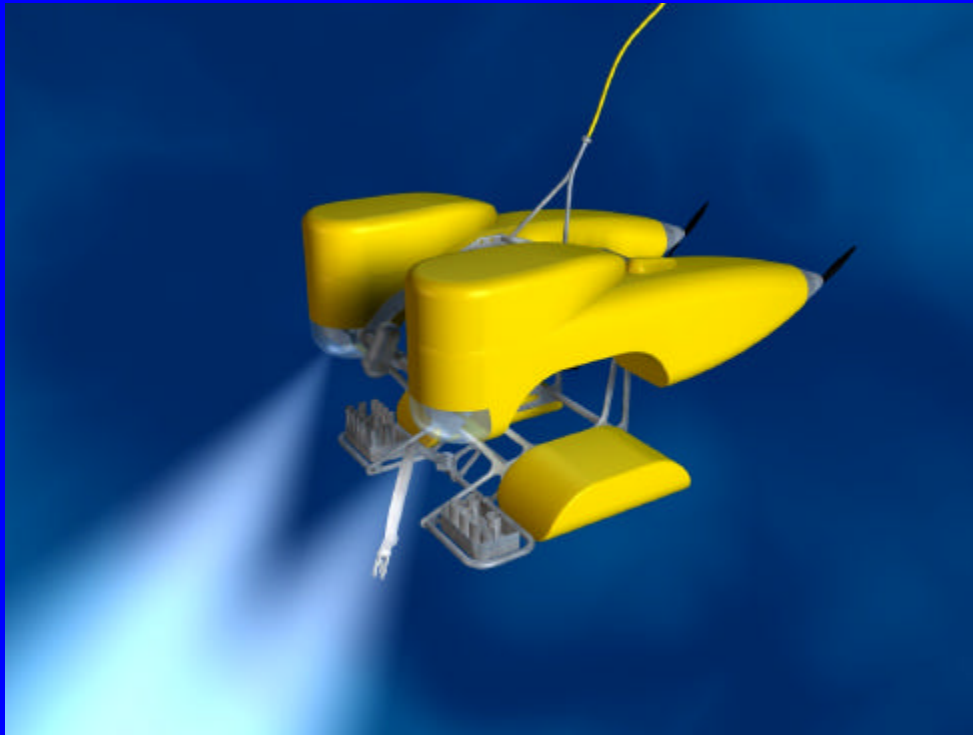
**Project underway
at WHOI -
Anticipated vehicle
final assembly and
testing/technical
support in late
2008.**

Science operations begin in 2009

http://www.unols.org/committees/dessc/replacement_HOV/replacement_hov.html

Hybrid ROV Project Update

11,000 meter depth capability



The HROV project is underway at WHOI with expected testing and trials of the vehicle system in late 2006.



Winter DESSC Meeting

MEETING ANNOUNCEMENT

DEep Submergence Science Committee - Annual Planning Meeting

<<http://www.unols.org/meetings/2005/200512des/200512desag.html>>

Sunday, December 4, 2005

The Marriott Courtyard at San Francisco Downtown

*** Rincon Hill Room***

299 Second Street

San Francisco, CA 94105

We encourage the participation of students at this DESSC meeting as it offers them a unique opportunity to become familiar with the National Deep Submergence Facility and its users.