

# *UNOLS Deep Submergence Science Committee*



October 16, 2006

Report to RVTEC



**University-National Oceanographic Laboratory System**

# Criteria for Incorporating New Assets into the NDSF

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- In the coming years there will be significant demand for new tools to support deep submergence research
- There will also be a need for uniform community access to them.
- NSF requested DESSC to develop criteria for incorporating assets into the National Deep Submergence Facility (NDSF).
- Federal agencies and academic institutions considering incorporation of a deep-sea research asset into the NDSF will request DESSC to review and consider the item for status.

# **Criteria for Incorporating New Assets into the NDSF**

- 1) Is there a significant and established broad demand by the community for the asset and will this demand continue in the future?**
- 2) How would the community benefit by having it in the facility?**
- 3) Does the asset provide a unique capability to the deep submergence community that is not currently available from other facility assets and/or is the demand so high that a single asset cannot fulfill the demand?**
- 4) Is the asset proven to be robust and beyond a developmental stage?**
- 5) What is the plan for transitioning this asset into the NDSF and how will it be incorporated operationally into the facility?**
- 6) What are the financial costs associated with the asset?**
- 7) What is the mechanism for providing high-quality data products from the asset in a timely fashion that are easily accessible to the users?**

# ***ABE/Sentry Added to the NDSF***

- WHOI requested the inclusion of ABE/Sentry into the NDSF
- DESSC evaluated the WHOI proposal and recommended that the autonomous vehicle *ABE/Sentry* be included in the NDSF - concurrent with the removal of the two towed vehicles *DSL-120A* and *Argos II*
- The Council endorsed DESSC's recommendation in June



# NDSF User Debrief Interviews

- In order to better track the status of vehicle and system performance, DESSC will conduct debrief interviews of PIs who use *Jason2*, *Alvin*, and *ABE/Sentry*.
- Participation in the debriefs will include DESSC, the science user, and the NDSF operator
- A standard set of debrief questions will be drafted (the AICC debrief questions as a template).
- Agendas for future meetings will include summary reports of these debrief.

# Science Sensors for Replacement HOV

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- A community on-line survey on science outfitting for the RHOV is being drafted.
- It will include both tools and sensors
- It will be announced when available.

# *Safety Standards for Human Occupied Vehicles*

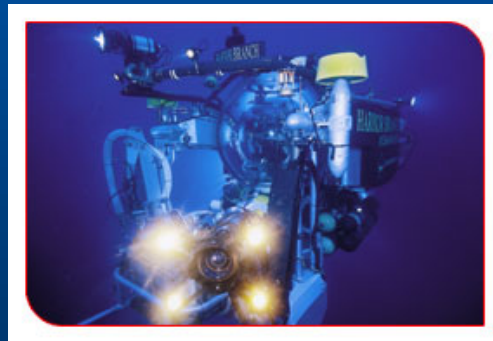
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# Establish Safety Standards for Human Occupied Vehicles (HOVs)

- NSF and NOAA tasked DESSC to establish safety standards for HOVs.



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# Committee Membership:

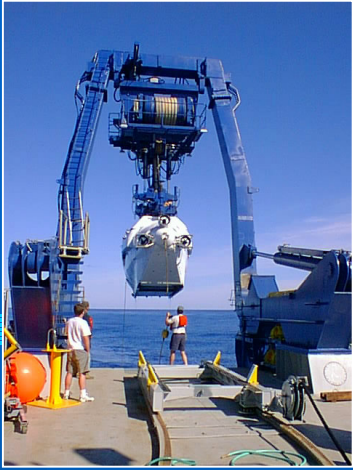
- Dana Wilkes - NOAA Representative
- Tim Askew (HBOI) – HOV Operator, UNOLS Safety Committee
- Colleen Cavanaugh (Harvard U.) – Science HOV user
- Pat Hickey (WHOI) - HOV pilot
- Terry Kerby (HURL) – HOV Operator and Pilot
- Dan Schwartz (UW) - Marine Superintendent, past Ship Captain
- Barrie Walden (WHOI) – HOV Operator
- Craig Young (U. of OR) - Science HOV user, DESSC

## Agency Representatives:

- NSF- Dolly Dieter, Holly Smith
- NOAA – Barbara Moore



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## *Document Chapters*

- HOV Operations
- HOV Support Ship
- HOV Handling Systems
- Training Procedures for HOV Crew
- Science User Safety Guidelines



# ***Project Timeline and Meetings***

- Timeline: Multi-year
- Meetings:
  - Phone and Web conferencing every other month
  - Next Conference – October 31, 2006
- Completion: before new HOV comes into service.

## Meeting Announcement

# DEEP SUBMERGENCE SCIENCE COMMITTEE

## Annual Planning Meeting

Thursday - November 9, 2006

Seattle Aquarium  
1483 Alaskan Way  
Seattle, WA 98101

8:30 a.m. to 3:30 p.m.



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