

AUVs for Science Applications (AUVSA)

DESSC
May 2006

Maurice Tivey

AUVSA Conference

A Conference to Promote Dialog Between AUV Developers, Engineers and Science Users

- **Meeting Date:** June 6-7th 2006 at WHOI
- **Co-conveners:** H. Singh*, L. Mayer (UNH), C. German*, L. Whitcomb (JHU), M. Tivey*, T. Shank* (*WHOI)
- **Sponsors:** WHOI Deep Ocean Exploration Institute; NSF Engineering; NSF OCE; NOAA

2-day workshop to bring together leading developers of scientific AUVs with leading scientific users. The workshop will be followed by special sessions at the Fall AGU in Dec. 2006.

Registration online:

http://www.whoi.edu/institutes/doei/activities/auvsa_conference.html



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- **Depth ratings, operational capabilities and costs of AUVs available to science**
- **Pros and cons of various hull designs (e.g., torpedo shaped vs multi-hulled)**
- **Available sensor packages (resolution, power requirements, operational guidelines)**
- **Science requirements versus operational requirements in AUV missions**
- **Optimization of AUV characteristics for different types of operation/investigation (e.g., near-bottom bathymetry/geophysics, mid-water water column sensing, near-bottom photography)**
- **Vertical integration of sensors, platforms and algorithms into finished science products**

