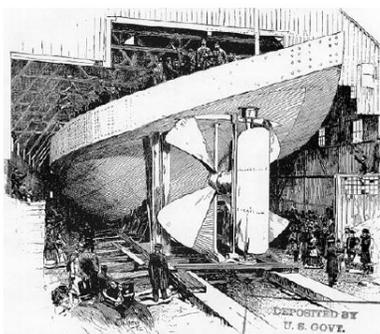


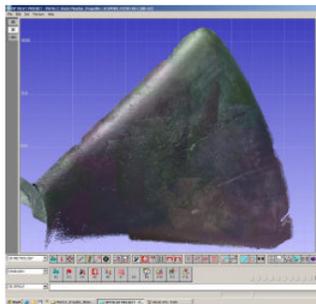
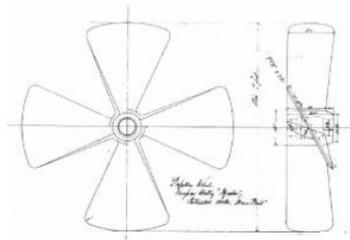


# Smithsonian Center for Materials Research and Education

## *Topics in Conservation Lecture*



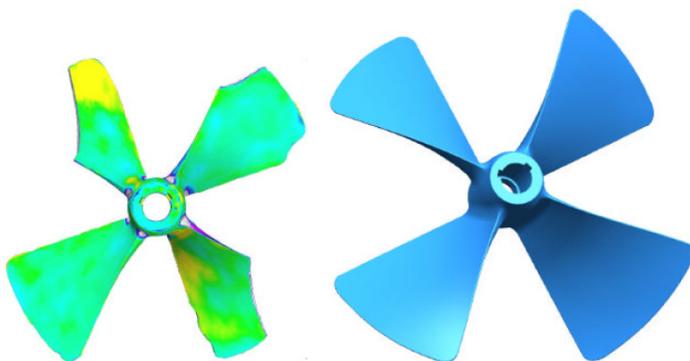
*Scanning of propeller screw from  
the salvaged USS Monitor*



### *Today's High Accuracy Laser Measurement Systems and their use in Inspection, Reverse Engineering and Design Validation*

Steven D. Hand  
Senior Metrologist  
MAGLEV, Inc.  
1100 Industry Road  
McKeesport, PA

The presentation reviews current technologies available for high accuracy laser measurement and scanning systems with an emphasis on testing and evaluation applications. Examples of projects, using scanning technology as the primary means of data acquisition, are detailed along with results from other projects where data was taken in adverse conditions and analyzed using surfaced model comparisons.



**SCMRE Theater • Museum Support Center  
4210 Silver Hill Road  
Suitland, MD 20746 • 301-238-1240**

**January 11, 2006 at 10:45 am**