NAS Maritime Archaeology Course: *Photogrammetry and Photomosaics in Archaeology*

20th-21st February 2016

**Venue:** Fort Cumberland, Portsmouth  
**Tutors:** Matt Cass

**Course Aims and Objectives:**  
This course will provide an overview of the principles of Photogrammetry and Photomosaic and their application to archaeological survey methodology. The course will be suitable for the general public, individuals undertaking the NAS Training syllabus and professional archaeologists wanting to increase their knowledge and skills in photography and develop their understanding of scientific photographic techniques especially those who have already experimented with these techniques.

**Objectives:**  
- Review of Photogrammetric techniques both Mono and Stereo  
- Provide an overview of camera systems to produce photogrammetric images  
- Introduction to advanced functions within Adobe Photoshop for image analysis  
- Overview and practical session working with Photogrammetry to produce 3-D models  
- Review of Photomosaics and how to produce them, discussion on specific issues for nautical archaeology  
- Practical session producing images for a Photomosaic  
- Practical session producing a final mosaic either using traditional techniques or computer software

**Learning Outcomes:**  
Upon completion of this course participants will have reviewed the principles of Photogrammetry and Photomosaics and its practical application to archaeological survey methodology and developments in the field such as drones. Through practical experience participants will have learnt how to use photographic equipment to produce Photogrammetric images and had the opportunity to analyse those images using Adobe Photoshop and other systems. Participants will also have been provided with an introduction to rigs suitable for producing a Photomosaic and then produced and post processed a series of images to achieve a final result.

**NAS Part III point allocation:**  
10 credits will be awarded to NAS members under the module Fieldwork

**National Occupational Standards for Archaeology Units:**  
Unit code CU2099: Contribute to non-intrusive investigations

**CIfA Endorsement:**  
This course has been endorsed by the Charted Institute for Archaeologists (CIfA) to count towards the required hours of continual professional development.
Suggested Reading:


http://www.isprs.org/

http://culturalheritageimaging.org/Technologies/Photogrammetry/