Programme

Thursday 22 March

Before the start of the conference some additional tours are available on a first come, first served basis (limited places available - please book via the booking form).
Timings as follows:

10.30 & 11.30 for 45 minutes
Navigational instruments in the Royal Observatory Greenwich stores
(led by Richard Dunn, Senior Curator of the History of Navigation, NMM)

10.30 & 11.30 for 45 minutes
Current chronometer research, in the Horology Conservation Workshop, Royal Observatory Greenwich
(led by Jonathan Betts, Senior Specialist, Horology, NMM)

Programme

13.30 Registration and coffee (Lecture Theatre, National Maritime Museum)

14.00 Welcome and introduction – Richard Dunn

14.15 Richard Dunn
North by Northwest? Trouble with compasses in the exploration of the Arctic

Frank Reed
Lunars and 19th-century American commerce in the Pacific

Dr Wolfgang Koberer
Position without calculation: Analogue instruments for position finding in astronomical navigation

15.45 Tea Break

16.15 Yuto Ishibashi
Accurate time for mariners: Time-keeping and signalling in mid-Victorian Liverpool

John Kemp
The development and use of Astro Position Lines at sea

17.15 Close / Drinks Reception
Friday 23 March

09.30 Coffee

10.00 Terry Hayward  
**The early development of air navigation**

Norman Bonnor  
**Navigating at 50,000 and 500 feet during the Cold War of the 1950s and 60s**

Frank Reed  
**Lunars in the Space Age**

11.30 Coffee break

12.00 Pat Norris  
**The longitude challenge in Deep Space**

Nick Ward  
**From Lighthouses to e-Navigation**

13.00 Lunch

14.00 Richard Easton  
**From Harrison to GPS**

Paul Saunders  
**Automated position reporting – aspirations and their realisation, across domains**

15.00 Tea break

15.30 Dr S E Taylor  
**Electronic Navigation Systems on Fishing Vessels: Applications in Sub-Sea Hazard Avoidance**

Dr Heloise Finch-Boyer  
**What does digital do? Representing and acting on ‘safety’ and ‘accuracy’ as paper sea charts became digital charts 1977-2010**

16.30 General discussion and closing remarks – Terry Hayward