

SESSION 1 Huntington Room		INTRODUCTION		
	1:00 – 1:15	Welcome: John Hightower, President and CEO The Mariners' Museum		
	1:15 - 1:35	Willem Mörzer Bruyns		
	1:40 – 2:00	Jonathan Betts		
	2:05 – 2:25	Anita McConnell		
	2:30 – 2:50	Peter Ifland		
	2:55 – 3:00	BREAK AND MOVE TO THEATER		
SESSION 2	<b>SESSION 2 A THEATER</b>	INSTRUMENTS OF CHEMISTRY (A) PAOLO BRENNI	<b>SESSION 2 B HUNTINGTON ROOM</b>	INSTRUMENTS OF MATHEMATICS (B) SARA SCHECHNER
	3:05 – 3:25	van der Spek Van't Hoff's molecular models, scientific instruments or didactic tools?	3:05 – 3:25	Johnston John Wells and practical mathematics in early-modern England
	3:30 – 3:50	Paselk The Chemical Refractometer	3:30 – 3:50	Korey What's a nice bo(d)y like you doing in a place like this?
	3:55 – 4:15	Robotti/Leone Artificial Radioactivity in Rome	3:55 – 4:15	Greenslade Apparatus to demonstrate Oscillations and Waves
Group Photo	4:20 – 4:40	GROUP PHOTO – MAIN ENTRANCE TO MUSEUM		
Behind the scenes tour	4:45 – 5:45	Tour of Monitor Conservation Area		
Opening reception	5:50 – 7:00	Lobby		

**SCIENTIFIC INSTRUMENT SYMPOSIUM****DAY 2****WEDNESDAY****OCTOBER 1**

<b>SESSION 3</b> Huntington Room		<b>INSTRUMENTS OF NAVIGATION</b> <b>RANDALL BROOKS</b>
	8:30 - 8:50	Turner Planting (and replanting) the seed: Rochon's micrometer in the Americas
	8:55 - 9:15	Lindgren Nautical Log R& D and the Board of Longitude
	9:20 - 9:40	Bennett Backstaff or octant c. 1750?
	9:45 - 10:05	Clifton The Adoption of the Octant in the British Isles
<b>BREAK</b>	10:05 - 10:30	
<b>SESSION 4</b> Huntington Room		<b>INSTRUMENTS OF ICONOGRAPHY</b> <b>WILLEM MÖRZER BRUYNS</b>
	10:30 - 10:50	Hicks George Weymouth and his paper navigational instruments
	10:55 - 11:15	Morrison-Low Sir Archibald Grant's Cabinet of curiosities
	11:20 - 11:40	Huisman The Microscopes in Portraits of 18th Century Dutch Patricians
<b>Poster Session</b>	11:45 - 12:05	Anna Room
<b>Lunch</b> Huntington Room	12:15 - 1:15	

Depart for Jefferson Lab		TRIP TO JEFFERSON LAB
Business Entrance of the Museum	1:30	Depart for Jefferson Lab
	2:00 – 3:30	Tour of Jefferson Lab
	3:30 – 4:30	Lecture with Fred Dylla
	4:30 – 5:00	Return to Museum
	5:00 – 6:00	Light refreshments at Museum
SESSION 5 Huntington Room		REPLICAS ALISON MORRISON LOW
	6:00 – 6:20	Staubermann REMADE SCIENTIFIC INSTRUMENTS IN THE MUSEUM CONTEXT: AN EXPERIMENT
	6:25 – 6:45	Cavicchi The hollow Induction Coil
	6:50 – 7:10	Morris Challenges in Accurately Replicating Historic Scientific Instruments
	7:15 – 7:35	Tweney The Recovery, Reconstitution and Replication of Faraday's Gold Specimens

Poster Session	8:30 – 9:00	Anna Room
SESSION 6 Huntington Room		INSTRUMENTS OF ASTRONOMY JOHN MCKNIGHT
	9:00 - 9:20	Caplan Optical Limitations to the Accuracy of Positional Measurements with Tychoic Instruments
	9:25 – 9:45	Gualandi The 18th Century Astronomical instruments of the Bologna Museo della Specola used by Eustachio Manfredi.
	9:50 – 10:10	Rudd A Curious Example of a Fraunhofer-Dollond Connection
Break	10:15 – 10:25	
SESSION 6 (continued)		INSTRUMENTS OF ASTRONOMY (CONTINUED)
	10:30 – 10:50	LeGuet Tully On the Inventory of France's Astronomical Heritage
	10:55 – 11:15	Beare An English Eye for an American Transit
	11:20 – 11:40	Wolfschmidt The German Bolivia Expedition (1926-1929) Part of an International Project
Break	11:45 – 12:00	
Lunch Huntington Room	12:00 – 1:00	

SESSION 7 Huntington Room		INSTRUMENTS OF EDUCATION STEVEN TURNER
	1:00 – 1:20	McKnight The 1764 Philosophical Cabinet of the College of William and Mary
	1:25 – 1:45	Nagata The Introduction and diffusion of Atwood's machine in Japan
	1:50 – 2:10	Toupin Scientific Instrument Collection at the Séminaire de Québec: Current Exhibition Issues
Break	2:15 – 2:30	
SESSION 8 Huntington Room		INSTRUMENTS OF TECHNOLOGY JIM BENNETT
	2:30 – 2:50	Zoller Not Just For Boiled Rabbett Anymore: The Use of Papin's Digester and the Science of Steam
	2:55 – 3:15	Brenni Mechanical and Hydrodynamic Models for Explaining and Visualizing Electrical Phenomena
	3:20 – 3:40	Pantalony The combination-tone controversy and the quest for Pure, Precise Tuning Forks
	3:45 – 4:05	Welsh Was a Misaligned Reflector in a German Enigma, etc
Break	4:05 – 4:15	
Poster Session	4:15 – 4:30	Anna Room
Tour of Library	4:30 – 5:30	The Mariners' Museum Library
Hands on Session	5:30 – 7:00	Collections Gallery and Collections Storage Area

SESSION 9 Huntington Room		INSTRUMENTS OF CONSERVATION MARIAN FOURNIER
	8:30 – 8:50	Mills The Lodestone: History, Physics, Formation
	8:55 – 9:15	Lock Some notes on the art and restoration of Early Colonial Brass surveying Instruments
	9:20 – 9:40	Brooks Forty Years of analytical Studies
	9:45 – 10:05	Watson The paradox of restoration: restoring the form, preserving the substance
Break	10:10 – 10:30	
Poster Session	10:30 – 11:00	Anna Room
Meeting Theater	11:00 – 12:00	PLENARY SESSION OF THE SCIENTIFIC INSTRUMENT COMMISSION
Lunch	12:00 – 1:00	Huntington Room
Depart for Williamsburg	1:00 – 1:15	Business Entrance of the Museum
Tour of Williamsburg	2:00 – 4:30	Group will be divided into 4 groups.
Return to Museum	4:30 – 5:30	
Cocktails	6:30 – 7:30	Lobby
Dinner	7:30 – 9:00	Lobby

Trip to Washington DC		SMITHSONIAN INSTITUTION
Load the bus	8:30 - 9:00	
Depart for Smithsonian	9:00	
Arrive at Smithsonian	Noon	
Lunch	12:30	Lunch at the Smithsonian
Tour	1:30 – 4:00	
Tour of Dibner Library	4:00 – 5:30	
Dinner	4:00 – 6:00	
Depart for Newport News	6:00 PM	
Arrive at The Mariners' Museum	9:00	

**SCIENTIFIC INSTRUMENT SYMPOSIUM****DAY 1-4 SEPTEMBER 29 – OCTOBER 3**

Session 10 Huntington Room	Poster Session	There are three times designated for the poster session. Posters will be available throughout the symposium.
Wednesday, October 1st	11:45 – 12:05	Anna Room
Thursday, October 2 <sup>nd</sup>	8:30 – 9:00	Anna Room
Thursday, October 2 <sup>nd</sup>	4:15 – 5:00	Anna Room
Friday, October 3 <sup>rd</sup>	10:30 – 11:00	Anna Room
		Bolt Naming New Worlds
		Brooks Taking the Airs
		Gualandi Restoration of the 1858 Steinheil refractor of the Astronomical Museum in Bologna, used in India to observe the 1874 Venus transit.
		Paselk A modern interpretation of a Medieval Torquetum
		Turner Web page “Instruments for Science: 1800-1914 Scientific Trade Literature from the Smithsonian collections.”
		Wyka Scientific Instruments in Paintings from the Polish collection