

Collection of Historical Scientific Instruments in the Department of the History of Science

One of the Harvard Museums of Science & Culture

Harvard University Science Center
1 Oxford Street, Cambridge, MA 02138
chsi.harvard.edu
617.495.2779

Faculty Director
Prof. Peter Galison
galison@fas.harvard.edu
617.495.3544

Director of Administration
Dr. David S. Unger
dsunger@fas.harvard.edu
617.496.1021

David P. Wheatland Curator
Dr. Sara Schechner
schechn@fas.harvard.edu
617.496.9542

Collection Manager
Sara Frankel
sfrankel@fas.harvard.edu
617.496.4959

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TIME LIFE & MATTER

Science in Cambridge

Putnam Gallery · Harvard University Science Center
Collection of Historical Scientific Instruments
Department of the History of Science



TIME, LIFE & MATTER

COLLECTION OF HISTORICAL SCIENTIFIC INSTRUMENTS · PUTNAM GALLERY

COLONIAL SCIENCE

- 1 Old World Cosmology
Mathematical Practitioners
 - Mathematical Instruments
 - *Galileo's Geometrical Compass*
 - Time Finding
 - Surveying
 - Navigation

NATURAL PHILOSOPHY

- 2 Pope Grand Orrery
- 3 Harvard Hall Fire of 1764
- 4-5 Teaching and Research
 - *Instruments selected by Ben Franklin*
 - Models of the Heavens
 - Power of Air, Water, and Steam
 - Electrical Apparatus
 - Mechanical Powers

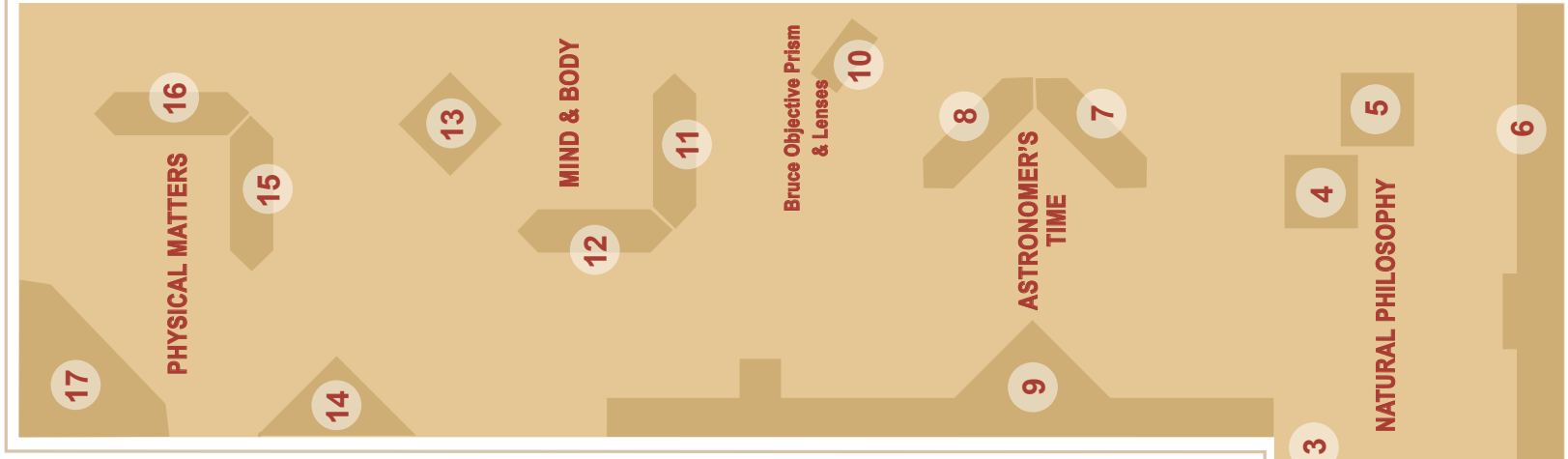
6 Local Styles Politics in the Heavens Theory Embodied in Instrument Design

7 Optical Instruments

- 8 Microscopes
Natural History Specimens

ASTRONOMER'S TIME

- 7 18th Century Astronomy
 - Early Telescopes
 - Transits of Venus
 - Research behind Enemy Lines
- 8 19th Century Astrophysics
 - Spectroscopy to Analyze the Untouchable
 - Celestial Photography
 - Classification of Stars
- Women at the Observatory
Marking Time



9 Astronomical Regulators

- New American Method of Astronomical Observation
- Selling Harvard Time

10 Bruce Telescope Objective Prism & Lenses

MIND & BODY

- 11 The New Psychology in the Philosophy Department
Instruments for Analyzing Sound
 - Seeing What You Hear
 - Tuning Forks and Resonators
 - Sirens and Whistles

12 Vision and Illusive Nature

- Models of the Eye
- Instruments Producing Illusions of Color, Dimension, and Motion
- *James's Waterfall Illusion*

Munsterberg's Psychology Laboratory Models of Brains

13 Time Measurement of Mental Acts

- Hipp Chronoscopes, Reaction Keys
 - Kymographs, Writing Tuning Forks, and Pulse-Recording Devices
- ### The Physiological Laboratory Living Organs in Bottles
- *Lindbergh's Perfusion Pump*

PHYSICAL MATTERS

14 Physics Methods of Image & Logic

- Cosmic Ray Shed
- Cloud Chamber
- Cyclotron Beam Line and Analytical Counters

15 The Science Factory

- Wartime Research on Acoustics
- Beranek's Box
- Safety Devices for Restricted Physics
- Harvard Cyclotron Laboratory

16 Along the Beam Line—Targets & Detectors

- From Vacuum Tubes to Integrated Circuits
- ### Physics in Medicine
- Early X-Rays and Lasers
 - Medical Research at the Cyclotron Lab
 - Proton Beam Radiation Therapy

17 Cyclotron Control Console

- Commodore 64 Computer