

CREATION'S BIRTHDAY

Hubble and Einstein Battle Over the Universe



From SRF to Theatre Arts?

- Thanks to the organizers of EUCARD for the opportunity to show this work
- The play - CREATION'S BIRTHDAY - was performed at FERMILAB on July 5, 2012
- Sponsored by the Chicago Astronomical Society in celebration of their 150th Anniversary Meeting
- Actors from Chicago

Main Themes

- Who can challenge Einstein?
- Hubble the Man - in One Word
- Hubble was a born fighter

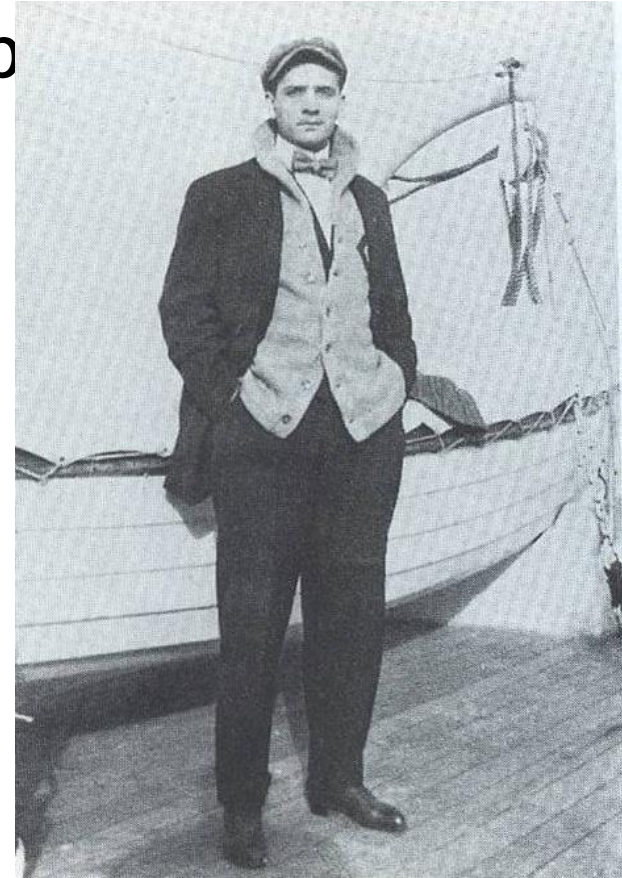
Chicago Connections

- Hubble attended U of Chicago
 - Worked under Millikan and Michelson
 - Excelled in basketball, boxing and ...
- Chicago promoters came after him to defeat Jack Johnson
 - The first black heavy-weight boxing world champ



Oxford

- But lucky for us
- Hubble chose to go to Oxford
- He won the RHODES scholarship



1916 – Joined World War I

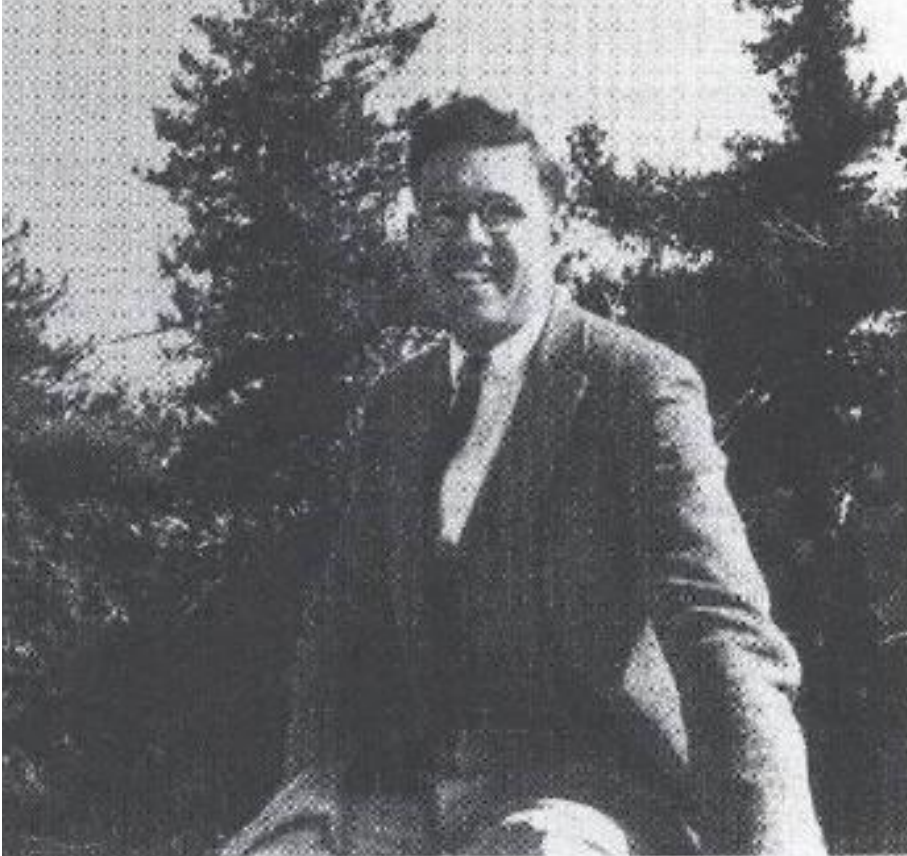


1919 - A Few Months After the Armistice Hubble Joins Mt. Wilson Observatory



At Mt Wilson Hubble Meets His Partners...in Work and Love

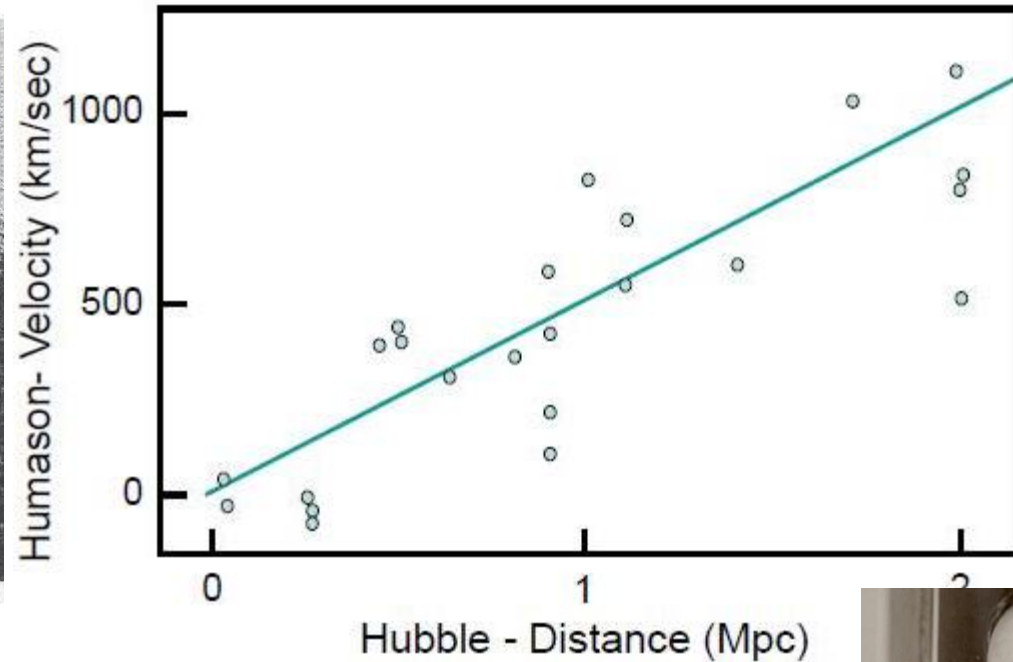
Milton Humason –
Janitor/Astronomer



Grace Lieb



1929 - Hubble and Humason Discover the Expanding Universe



HUBBLE'S LAW



Hubble Meets A Powerful Rival...

Top Astronomer - Harlow Shapley

- Our Milky Way is the ENTIRE Universe
- The Sun is at the edge of the Milky Way



But What Does Hubble's Law Mean?

The farther a galaxy is, the faster it recedes from us !



Father Georges
Lemaitre figures
it out!

Discussion After Play

- Play runs for 75 minutes
- Starts with short introduction about historical events of the time
- Please join for questions and comments after.