Instruments of Knowledge: Celebrating the First Moon Landing through U-M Collections

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INSTRUMENTS OF KNOWLEDGE: Celebrating the First Moon Landing through U-M Library Collections

OR: How 7 people used 1000 pushpins in 12 hours

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Timeline

- **February 2018**: Initial Idea
  - North Campus Libraries Group
- **May 2019**: Remember the Idea
  - Whoops! Five months late
- **June 2019**: Research & Prep
  - Paul & Jamie take lead
- **July 8, 2019**: Layout & Design
  - Butcher paper & scissors
- **July 16, 2019**: Installation
  - Push pins & spelling errors
Process—taking over the conference room
Process—installation
Process—corrections & completion

Apollo 11 F-1 Engine Parts
DATE: 1966
MANUFACTURER: Rocketdyne Division, North American Rockwell
ORIGIN: Los Angeles, CA
MATERIALS: CR6 steel, copper, aluminum, teflon, Inconel X
ORIGINAL DIMENSIONS: 16 feet long, 12 feet diameter

Wernher von Braun and his mightiest creation, the first stage of the Saturn V rocket. The F1 engines behind him were a source of lengthly and unremitting development difficulties, but ultimately proved to be tough, reliable and powerful.

Saturn V Rocket
*Saturn V was to have three stages: the SIC stage, the S-2, and the S-IIB. The S-I stage is approximately 130 feet long and 33 feet in diameter. Weighing 280,000 pounds empty, it holds some 44 million pounds of liquid oxygen and RP-1 (kerosene) fuel. Each of its five engines, designated F-1, can develop the 1.5 million pound of thrust produced by the entire first stage of Saturn I.*

Saturn V’s first stage thrust of 7.5 million pounds makes it the most powerful carrier known to be under development anywhere in the world. The S-2 stage is 115 feet long and 33 feet in diameter. It is powered by five liquid oxygen–hydrogen J-2 engines producing a total of 1 million pounds of thrust. The third stage is the S-IIB, 58.4 feet long, 21.7 feet in diameter, and powered by one 260,000 pound-thrust J-2.

—John F. Kennedy
Rice University
September 12, 1962

We choose to go to the moon in this decade and do the other things, not because they are easy, but because they are hard...
Lessons Learned

“Quotes matter” as do italics

Check your closed captions

Start planning earlier

Spellcheck with more than two eyeballs
MOON EXHIBIT: By the Numbers

940 Pushpins

105 Feet Butcher Paper

50 Years Space History

21 Windows

2 Bags Swedish Fish

1 LEGO Astronaut
To see the earth as it truly is, small and blue and beautiful in that eternal silence where it floats, is to see ourselves as riders on the earth together, brothers on that bright loveliness in the eternal cold—brothers who know now they are truly brothers.