

2019-09-25

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

Niehof, Jamie

<https://hdl.handle.net/2027.42/150855>

<http://creativecommons.org/licenses/by-nc/4.0/>

---

*Downloaded from Deep Blue, University of Michigan's institutional repository*

# **INSTRUMENTS OF KNOWLEDGE:**

**Celebrating the First Moon Landing through  
U-M Library Collections**



**OR:** How 7 people used 1000 pushpins in 12 hours

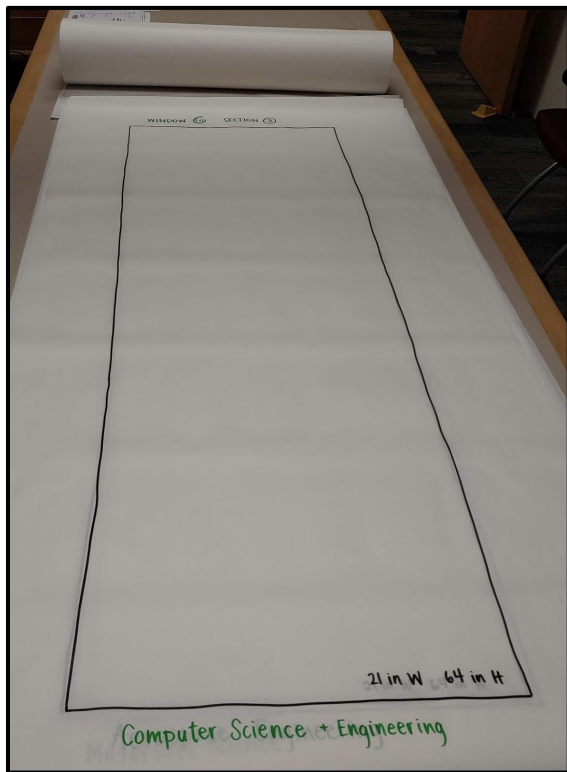
**JAMIE NIEHOF—Engineering Librarian**

**PAUL GROCHOWSKI—Engineering Librarian**

# Timeline



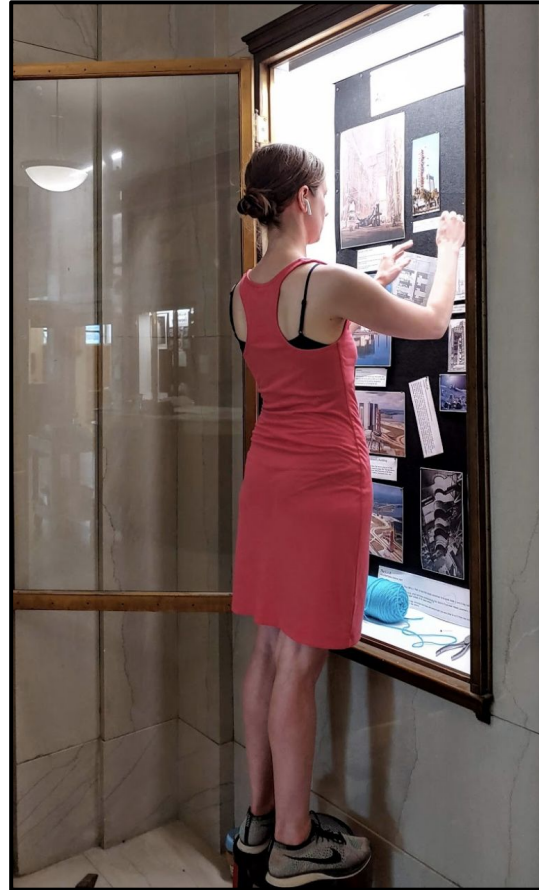
# Process—layout



# Process—taking over the conference room



# Process—installation



# Process—corrections & completion

## Apollo 11 F-1 Engine Parts

DATE: 1986  
 MANUFACTURER: Rocketdyne, Division, North American Rockwell  
 ORIGIN: Los Angeles, CA  
 MATERIALS: CRES steel, copper, aluminum, teflon, Inconel X  
 ORIGINAL DIMENSIONS: 18 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 lengthy and unremitting development difficulties, but ultimately proved to be tough, reliable and powerful.

## Saturn V Rocket

"Saturn V was to have three stages: the S-1C stage, the S-2, and the S-4B. The S-1C stage is approximately 138 feet long and the 33 feet in diameter. Weighing 280,000 lbs empty, it holds some 4.4 million pounds of liquid oxygen and RP-1 kerosene fuel. Each of its five engines, designated F-1, can develop the 1.5 million pounds 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 81.5 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-4B, 58.4 feet long, 21.7 feet in diameter, and powered by one 200,000 pound-thrust J-2."

HISTORY OF ROCKETRY & SPACE TRAVEL, 1966  
 CALL # TL781.V945

“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...”

—John F. Kennedy  
 Rice University  
 September 12, 1962

## INSTRUMENTS OF KNOWLEDGE

Celebrating the First Moon Landing through U-M Library Collections

The growth of our nation and education will be enriched by new knowledge of our university and environment.

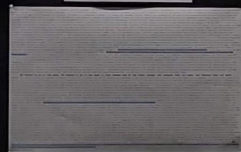


For the eyes of the world, now look into space, to the moon and to the planets beyond.

Only peace can be the great solution to the problems of the world. Peace is not a goal, it is a way of life.



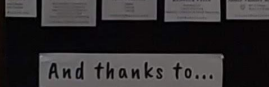
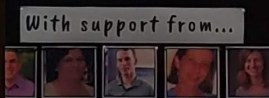
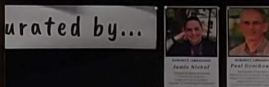
We have vowed that we shall not use space filled with weapons of mass destruction, but with instruments of knowledge and understanding.



EARTHBOUND TOY HAS BEEN...  
 VERBAL HISTORY HAS BEGUN.

WE CAME IN PEACE FOR ALL MANKIND.

THE MOON, IT TURNS OUT, IS A GREAT PLACE FOR MEN.



Special thanks to the following departments and individuals for their assistance in the creation of this exhibit:

- Office of the University Librarian
- Department of Special Collections
- Department of Rare Books and Manuscripts
- Department of Digital Library Services
- Department of Library Administration
- Department of Library Information Systems
- Department of Library Outreach and Engagement
- Department of Library Planning and Development
- Department of Library Technology
- Department of Library User Services
- Department of Library Collections
- Department of Library Preservation
- Department of Library Research
- Department of Library Special Services
- Department of Library Technical Services
- Department of Library Administration
- Department of Library Information Systems
- Department of Library Outreach and Engagement
- Department of Library Planning and Development
- Department of Library Technology
- Department of Library User Services
- Department of Library Collections
- Department of Library Preservation
- Department of Library Research
- Department of Library Special Services
- Department of Library Technical Services

## 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



200+

Work Hours

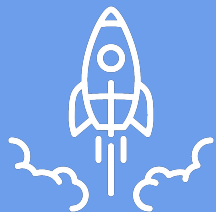
105

Feet Butcher Paper



50

Years  
Space  
History



21

Windows

2

Bags  
Swedish Fish



1

LEGO  
Astronaut



# **Riders on Earth Together, Brothers in Eternal Cold**



**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.**