

# RockOn, RockSat, and

**GLEE** Minute update everyone  
is...

Chris Koehler



# RockOn - 12<sup>th</sup> year

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- **Big success**
- **Lots of happy people**
- **Some of you sent people, so thank you**
- **Stamps and bolts – see me**



# RockOn - Impacts

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- 702 people
- 226 decks
- 43 + DC + PF
- 2020
  - Waitlist
  - Non-flight



# RockSat-C and X







STATION CERTIFIED  
FOR PYRO TESTING  
ONLY  
DO NOT USE FOR  
ELECTRONIC ASSEMBLY

RIGHT TO KNOW  
EXPOSURE INFORMATION  
FOR CHEMICALS AND  
HAZARDOUS MATERIALS  
IN THE WORKPLACE  
FOR MORE INFORMATION  
CONTACT THE SAFETY  
DEPARTMENT

INTO THE  
WOODS  
WV WESLEYAN 2016

Columbia

# RockSat-C and X

~180 payloads

~15,200 students

~100



# RockSat-C and X

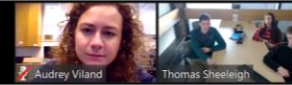
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~180 payloads    ~15,200 students    ~100  
institutions

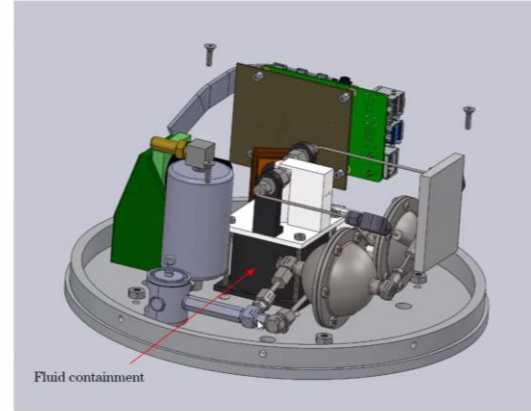




# University of Vermont



## Final CAD Model



RockSat-C 2020

29

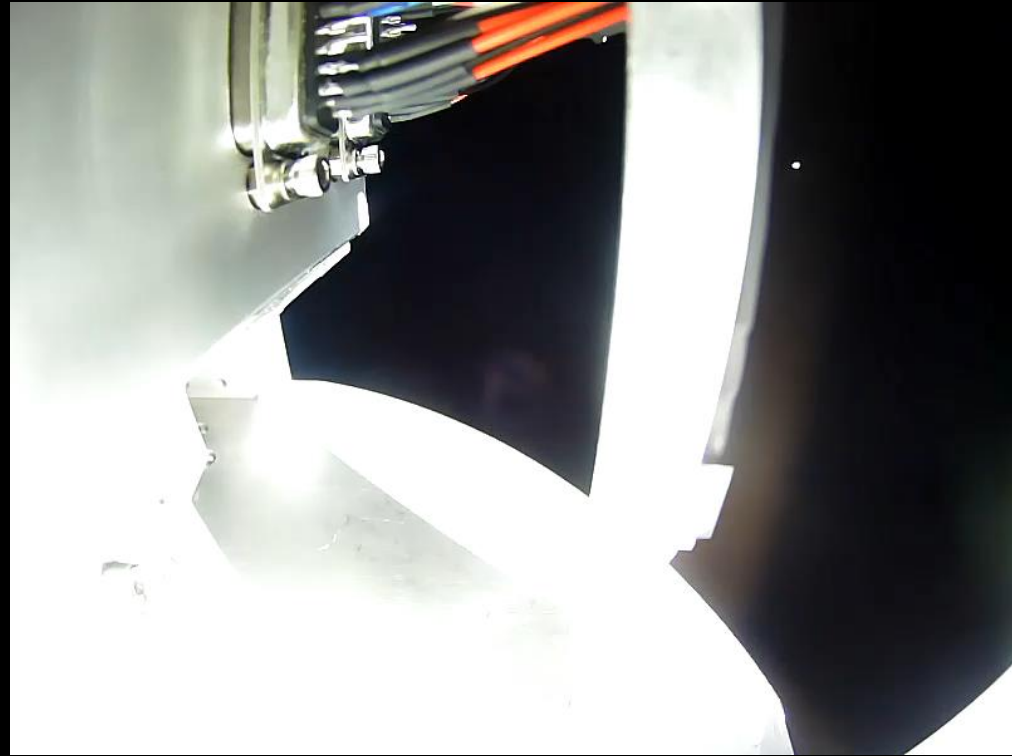


STR

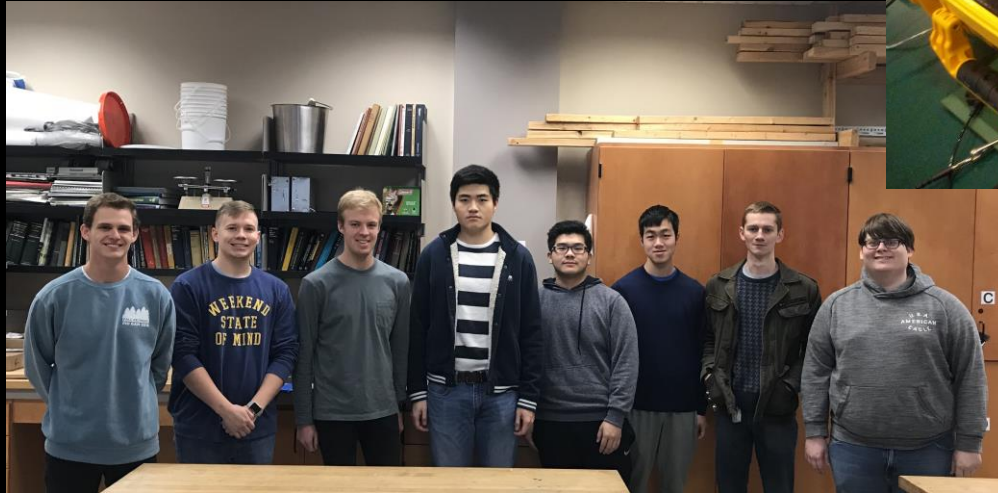
# Oregon Tech



# College of the Canyons



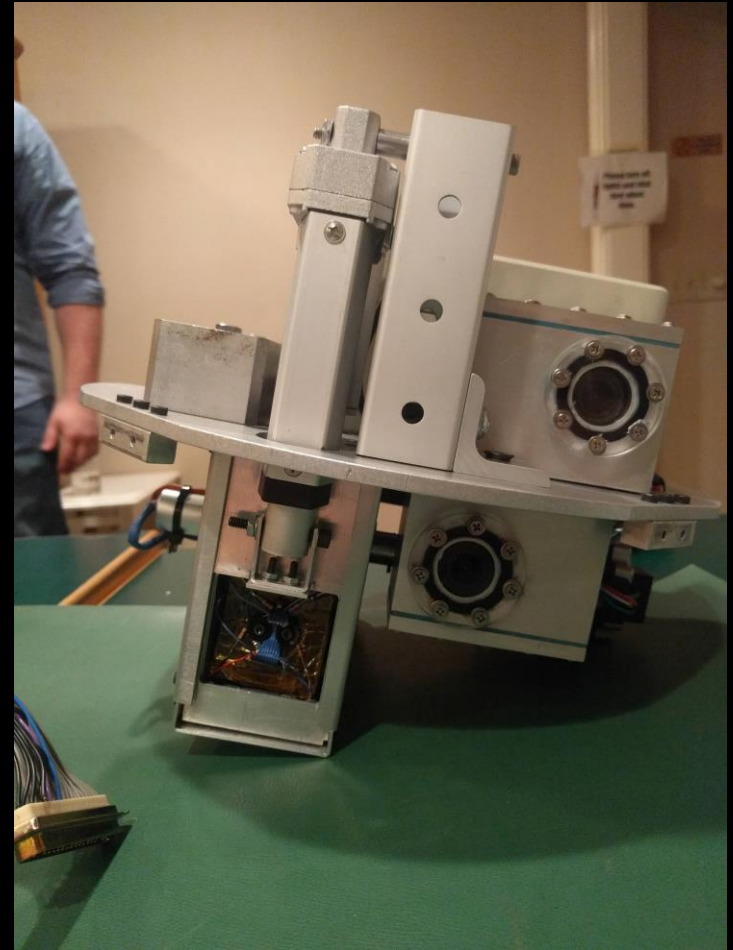
# University of Kentucky



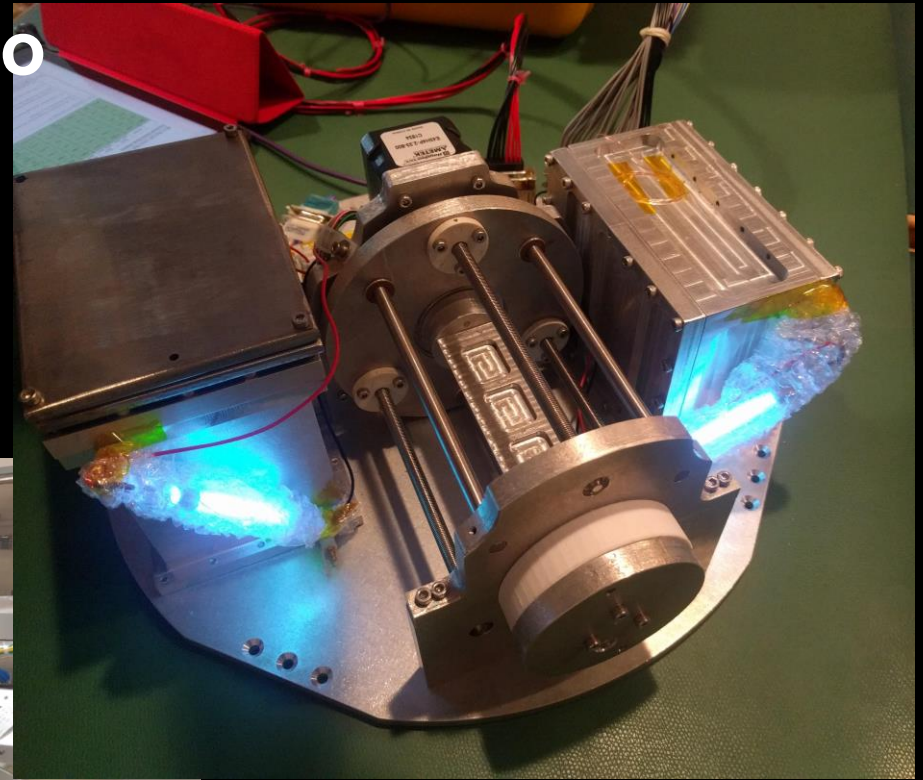
# University of Maryland



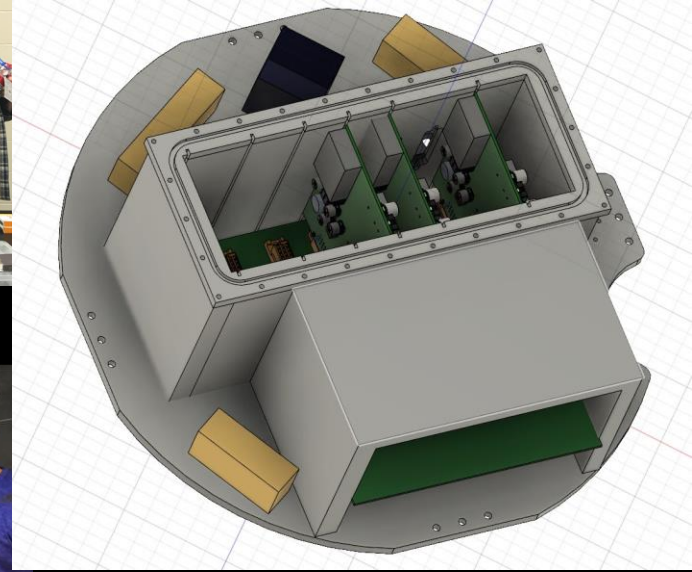
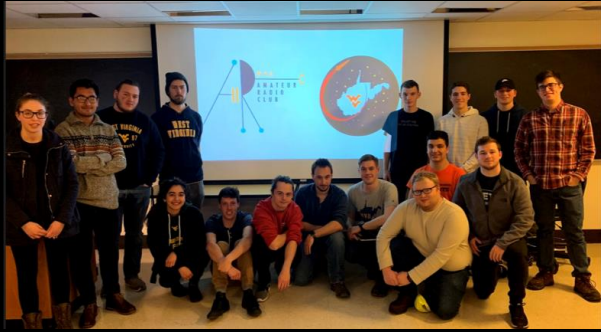
# University of Nebraska



# University of Puerto Rico

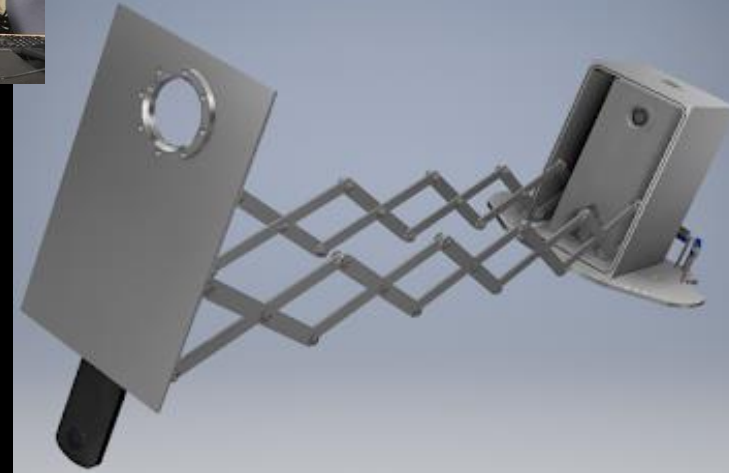


# West Virginia Collaboration

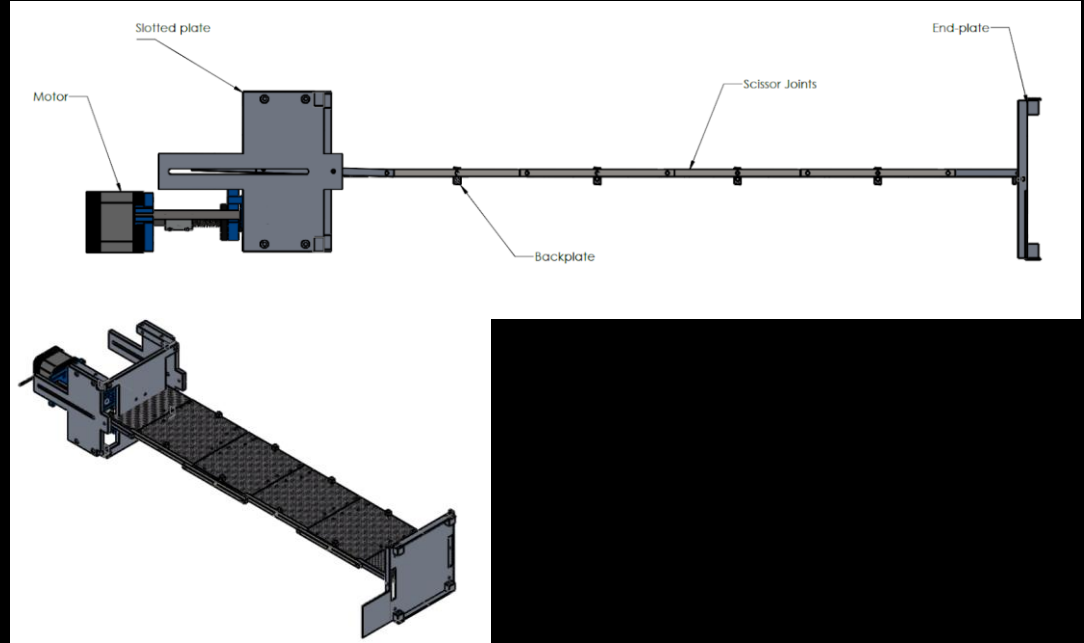




# Northwest Nazarene University/Kauai'i Community College



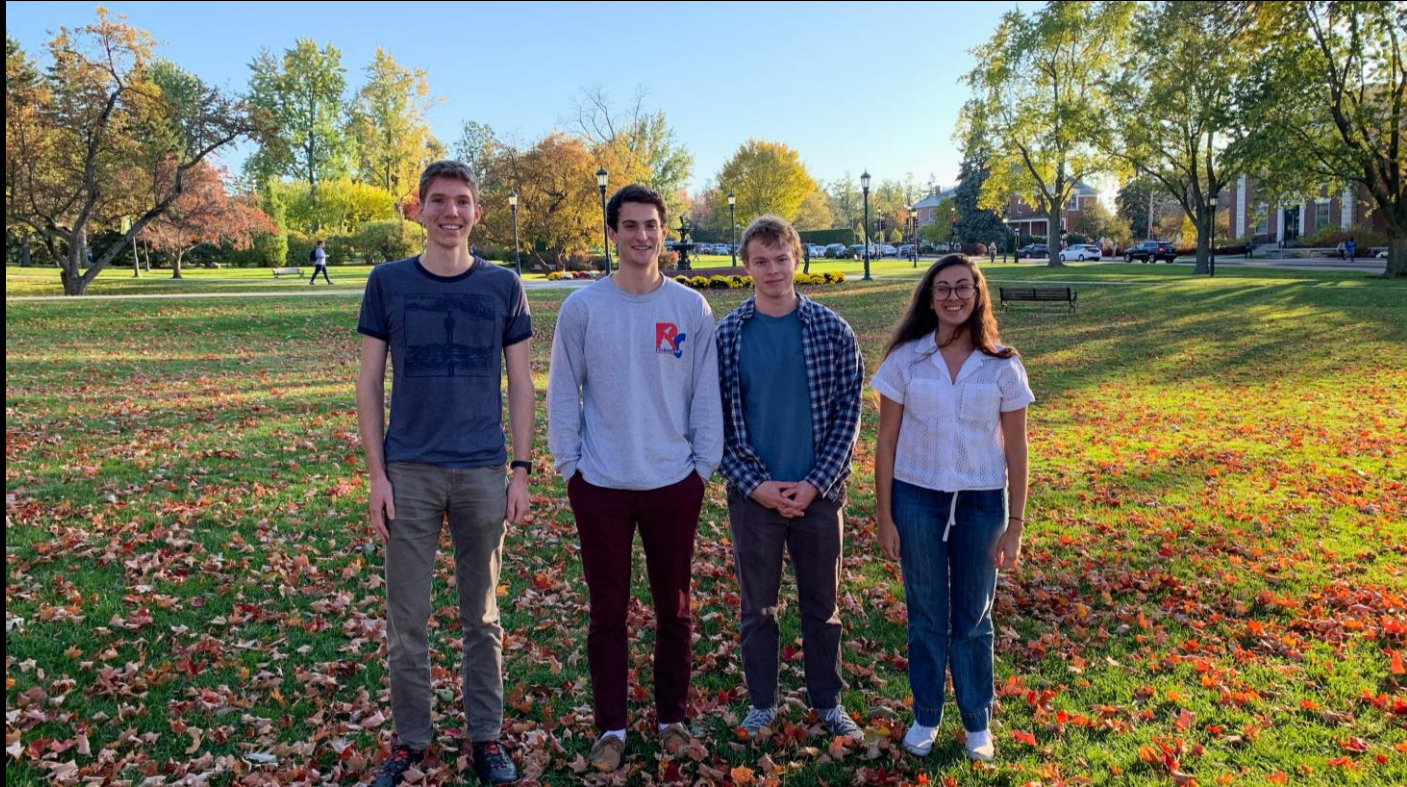
# Virginia Tech



# Oregon Tech



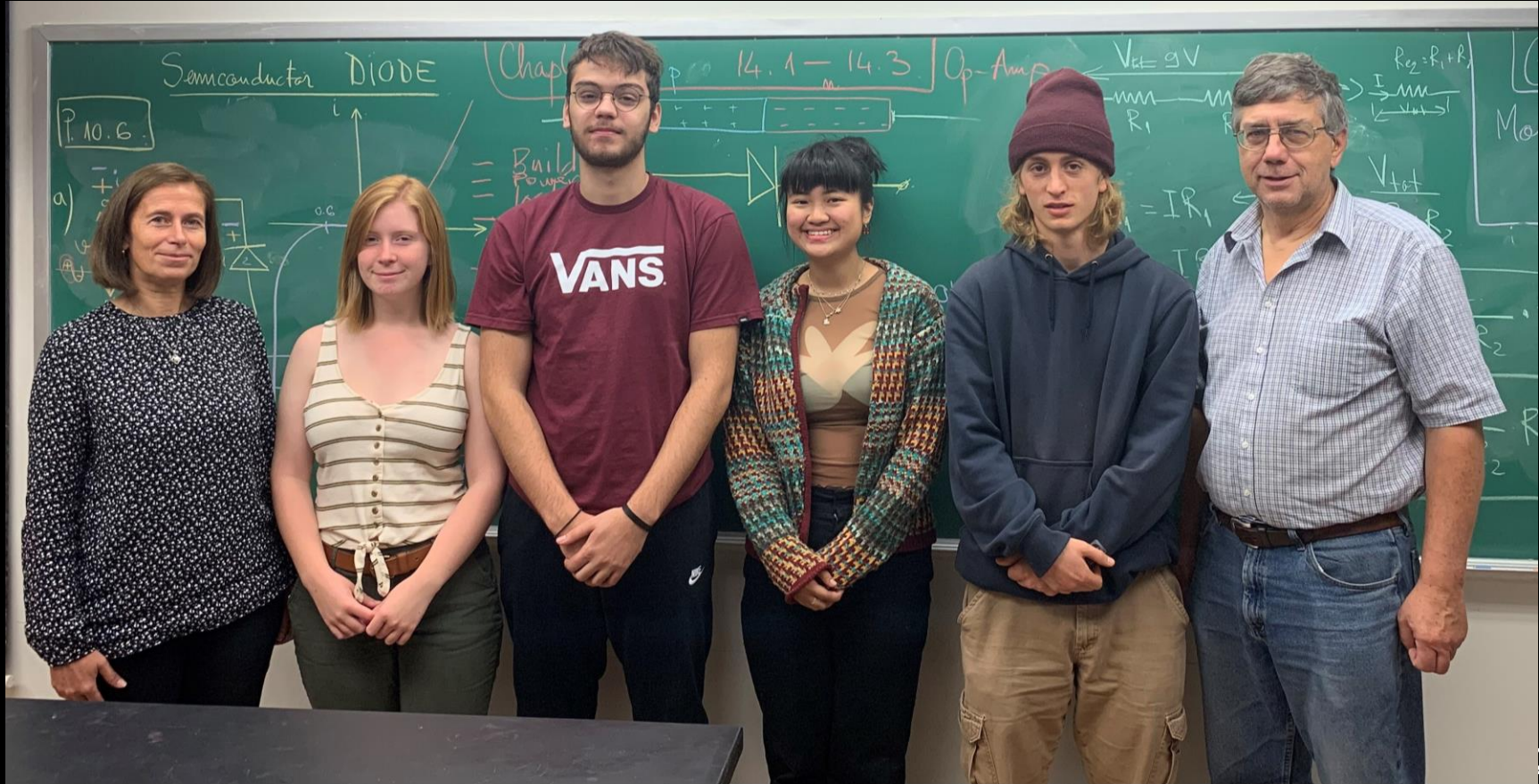
# University of Vermont



# Carthage College



# Hobart and William Smith Colleges



# McNeese State University



# Temple University













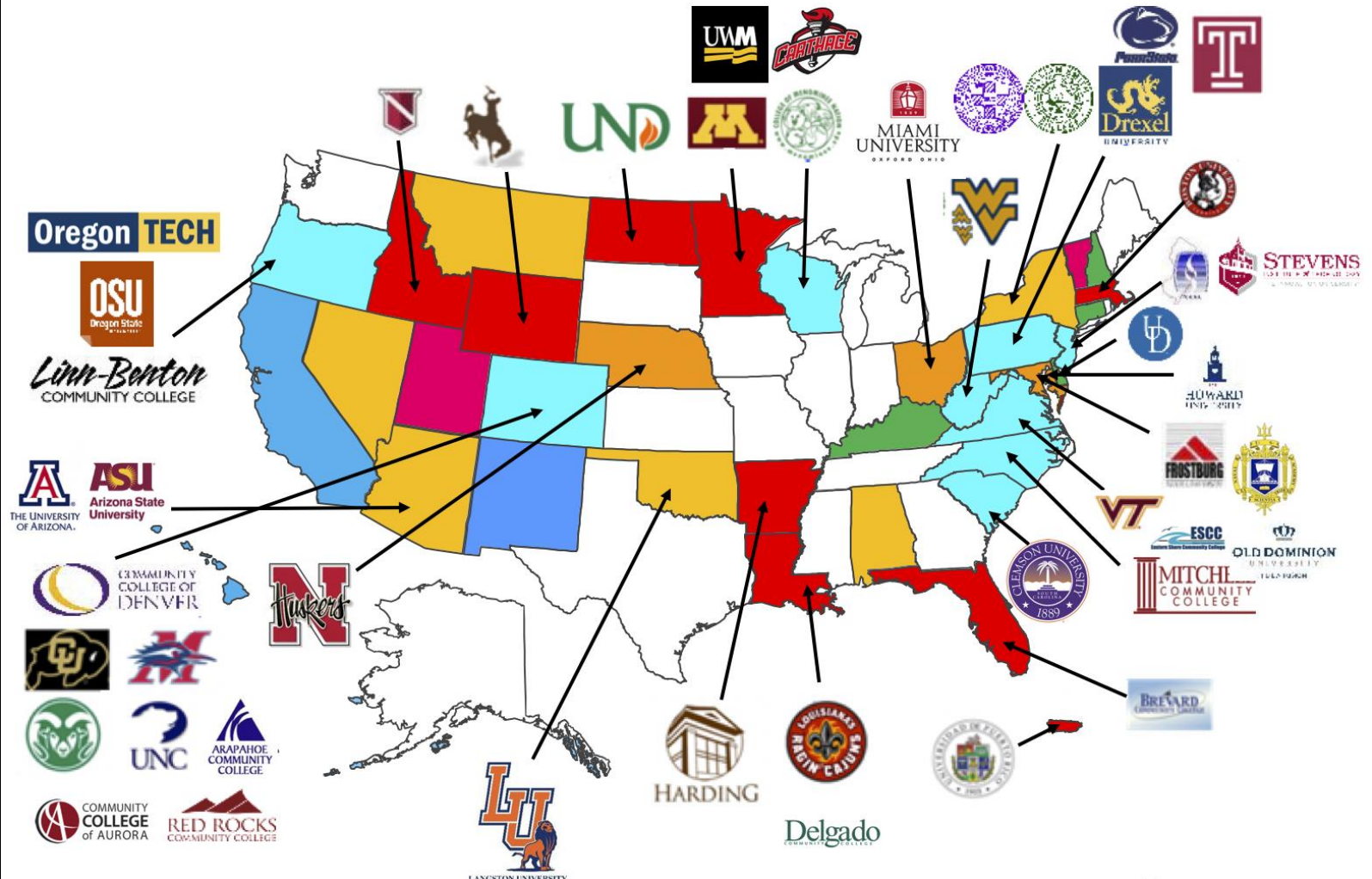












# The Great Lunar Expedition for Everyone

March 3, 2018...



# The Great Lunar Expedition for Everyone

March 1,  
2019...



# The Great Lunar Expedition for Everyone

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February 28, 2020...



# GLEE...

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~~2022~~ 2023

By December ~~14, 2022~~, 500 five gram LunaSats, built by students from every nation on Earth, shall land on the Moon to conduct multiple distributed science and technology missions while engaging the world's next generation of space explorers.

# July 20, 2019...

### CU Team Working To Send 500 Tiny Spacecraft To Moon

By Natalia V. Navarro | July 27, 2019

SHARE: [f](#) [t](#) [e](#)

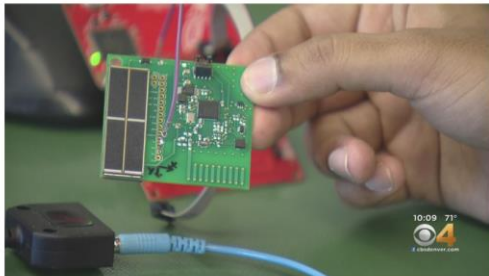
# COLORADO STUDENTS HOPE TO SEND 500 SPACECRAFT TO THE MOON BY 2023



ZANE MATHEWS | July 25, 2019


ThinkStock

**BOULDER, Colo. (CBS4)**– There is a new moon mission in the works and students at the University of Colorado in Boulder are at the center of it all. Their plan is to send hundreds of tiny spacecraft to the moon; each one will only be the size of a leaf.



(credit: CBS)

**CU Boulder Engineering** @CUEngineering · Jul 24  
The moon is for all! @COSpaceGrant is leading a mission to send 500 palm-sized spacecraft to the moon by 2023! #CUBoulder students will help build and program LunaSets as part of #GLEE2023 🚀  
Become a GLEEMer →



**Students to send hundreds of leaf-sized spacecraft to the moon**  
The Great Lunar Expedition for Everyone (GLEE) will reveal new information about the lunar surface and pave the way for human astronauts on the mo...  
colorado.edu



CU Boulder's Colorado Space Grant Consortium...



NEWS · CU NEWS

## CU Boulder's Colorado Space Grant Consortium hopes to launch 500 tiny spacecraft to moon

The group wants at least one team of students to come from each country in world

# March 2 to today...

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- **10 SG Telecons**
- At one point, **22 SG** were active
- Lots of meetings
- **Student team** formed
- Website **glee2023.org**
- Public announcement of GLEE with some pre
- Design reviews and more meetings
- Science Advisory Board (**SAB**)



And Now...

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# A Coalescing...

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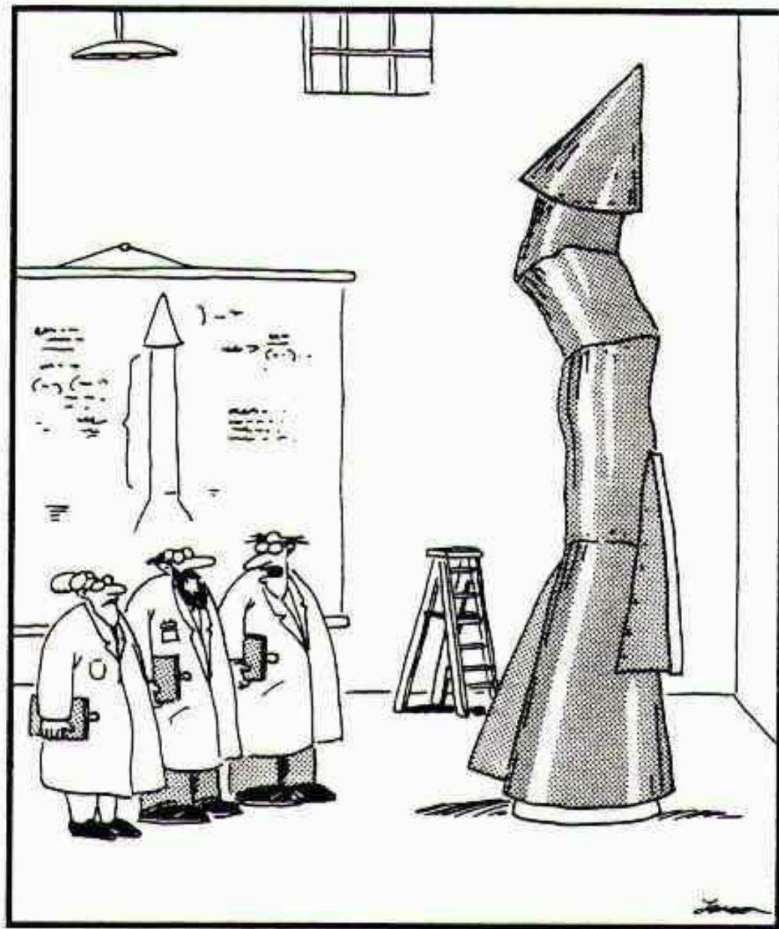
- Getting people excited is easy but doing the work is not
- Great progress is being made...



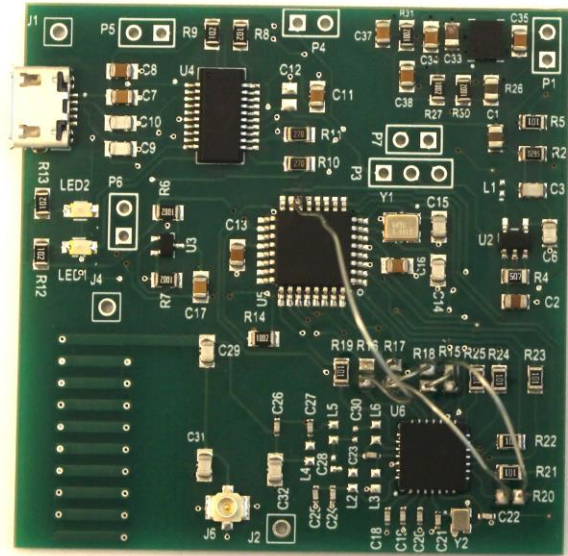
PRODIGY®

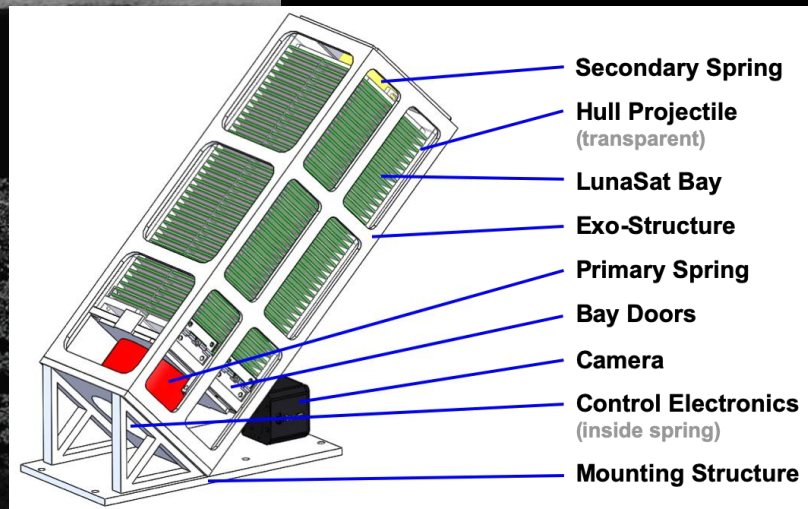
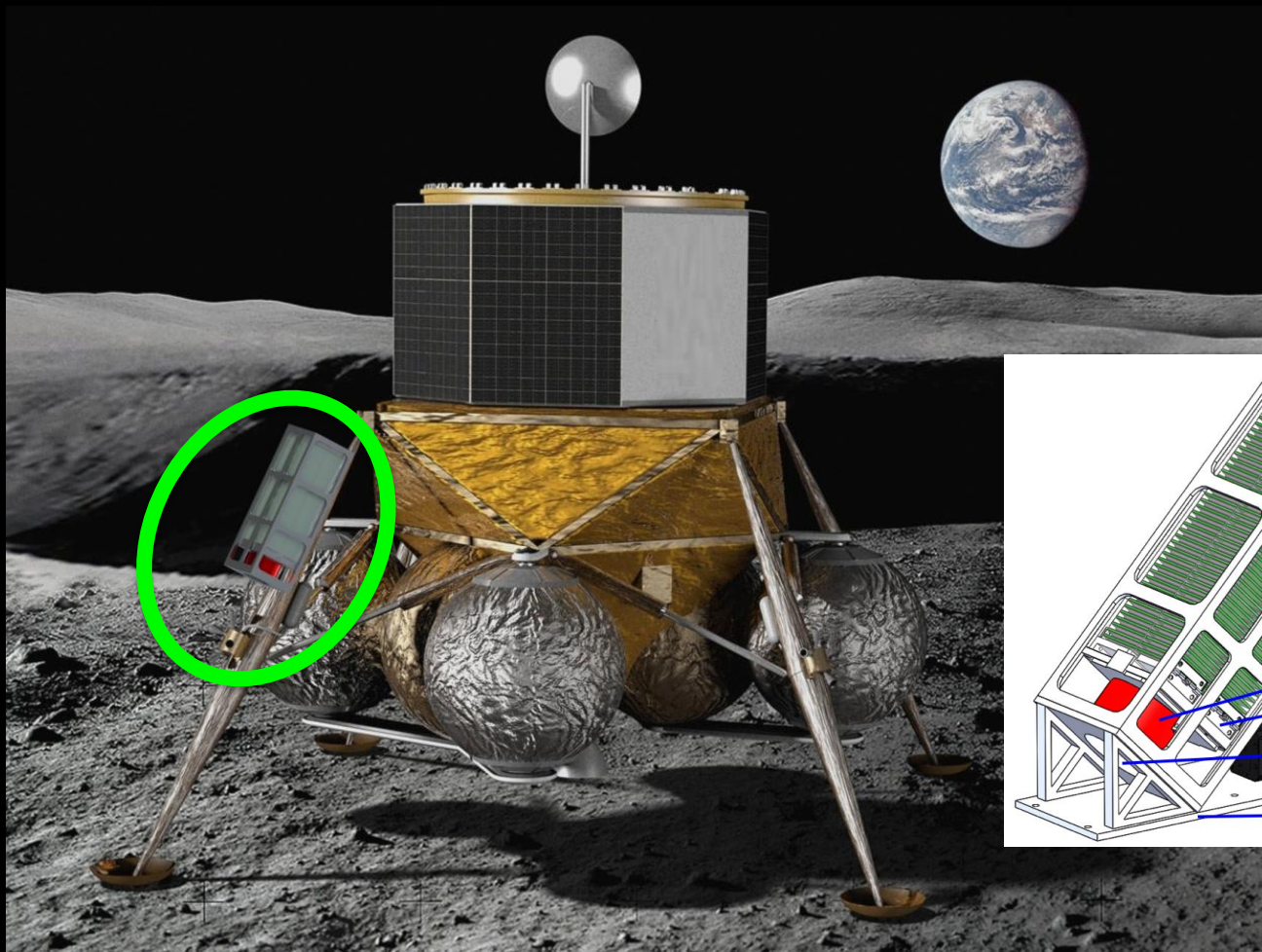
Interactive Personal Service





"It's time we face reality, my friends. ...  
We're not exactly rocket scientists."







# Current Plan...

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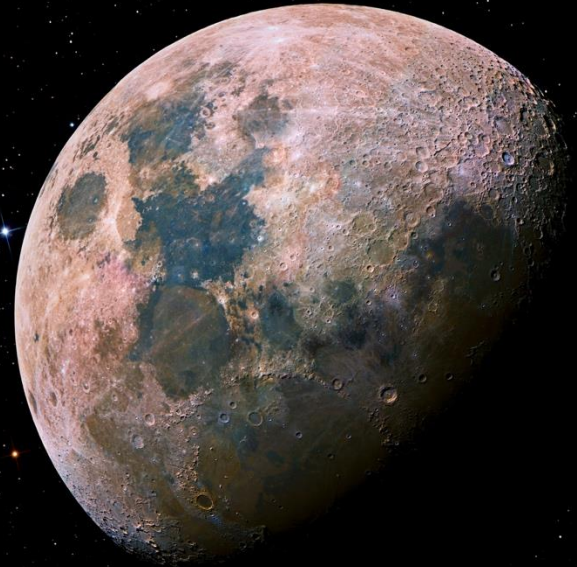
- **Developing Science, Spacecraft, and LunaSat at CU Boulder**
- **Spacecraft design complete by DEC 2020**
- **LunaSat will ready for teams by JAN 2021**
  - **On-line instruction on how to use them will be provided**
- **National workshop and conference held in JUL 2021 in Boulder Colorado to train teams and discuss GLEE**
  - **SAB, Industry, SG alumni, and NASA invited**
- **Continue to dream...**

# RockOn, RockSat, and

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**GLEE** minute update is... now over

Chris Koehler



# GLEE

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**The Great Lunar Expedition for  
Everyone**

**Chris Koehler**

**koehler@Colorado.edu**

