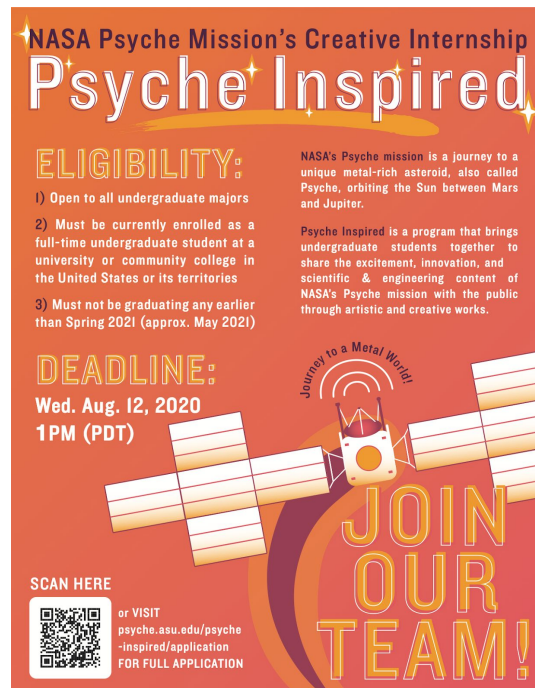


Astronomy Club Meeting Minutes 7/24/2020

- Weekly Check-in!
 -
- Club Announcements
 - Game night next friday, July 31 at the regular meeting time!
 - Jackbox - we have a new party pack to play with!
 - Minecraft - version 1.16.1
- Upcoming Student Opportunities
 - NASA Psyche Mission Internship
 - Open to all undergraduate students, application due August 12th



NASA Psyche Mission's Creative Internship
Psyche Inspired

ELIGIBILITY:

- 1) Open to all undergraduate majors
- 2) Must be currently enrolled as a full-time undergraduate student at a university or community college in the United States or its territories
- 3) Must not be graduating any earlier than Spring 2021 (approx. May 2021)

DEADLINE:
Wed. Aug. 12, 2020
1PM (PDT)

NASA's Psyche mission is a journey to a unique metal-rich asteroid, also called Psyche, orbiting the Sun between Mars and Jupiter.

Psyche Inspired is a program that brings undergraduate students together to share the excitement, innovation, and scientific & engineering content of NASA's Psyche mission with the public through artistic and creative works.

JOIN OUR TEAM!

SCAN HERE

or VISIT
psyche.asu.edu/psyche-inspired/application
FOR FULL APPLICATION

Journey to a Metal World!

- Math Tutors needed!
 - Paid mentoring program offered by Mentorship and Education in SCience for Tucson (MESCIT)
 - Help underserved students at the Hasan Preparatory and Leadership school for 2-4 hours a week with math up to Algebra II
 - Open to all majors
 - Application due August 5th
- What's Up Astro Club with Yancy
 - Comet NEOWISE in the feet of Ursa Major
 - Getting to 5th magnitude, need a dark site to see with naked eye
 - Fading fast!
 - Jupiter and Saturn between Capricorn and Sagittarius
- Astronomy Question of the Week with Don
 - Speed camera clocks a Ford Focus going 437 mph, driver was ticketed over \$1,000. How can this happen?

- Camera malfunction, cops didn't pick up on the error
 - World's land speed record
 - Jet speed car, they put jet engines on a car
 - 763.035 mph, 1227.985 km/h
 - Over one mile in October 1997
 - Exceeded the sound barrier at Mach 1.016
 - Can you explain the picture?
 - Zoomed in photo of water spray from a waterfall
 - Photo set of guy putting sun in his trunk
 - Jupiter and Saturn from 40,000ft
- Astrophotography with Sai
 - How Astrophotography Works - components of a Camera - the CCD
 - What is it? CCD = Charged Coupled Device
 - Integrated circuit primarily used in digital imaging
 - Converts photons to electrons, transfer charges
 - Works using the photovoltaic effect
 - Charge transferred to an amplifier by the CCD
 - changes in voltage are the data that make up the image
 - Cameras don't use CCDs anymore, they used to!
 - Modern cameras use CMOS, cheaper and easier to produce, use a lot less power to operate
- Diversity, Equity, and Inclusion (DEI) at Steward Observatory
 - Steward Observatory recently created the SODEI task force, which is committed to improving and upholding diversity in astronomy and physics
 - Meeting with Dr. Karen Olsen - Ways that Astro Club can recruit a new generation of astronomers
 - Increase advertising of Astronomy Club star parties to middle schools and high schools that are currently unaware of these free resources
 - Plan regular (monthly?) star parties on the mall of U of A that can generate interest in students not already majoring in astronomy and physics
 - Any other ideas, especially those that are achievable during the pandemic?
 - Will send out email with more information following today's meeting
- VeritAstronomy
 - Program to ask grad students and faculty to volunteer and share their experiences
 - Increase diversity in astronomy
 - Work in progress, to be released this semester
- AstroKahoot!!