

## Meeting Minutes 2/21/2020

- TIMESTEP
  - Next Meeting: Wednesday, March 4th @ 5pm
  - Where: PAS 218
  - Topic: Resume Building and Interview Preparation
- Astronomy Question of the Week with Don!
  - The ISS and Mars next to the moon
    - ISS is passing in front of the moon, the moon is occulting Mars
    - Why is the ISS so bright? Half of it should be dark
    - Should Mars have a phase? No, it is farther out from the Sun than we are, so it is always full
    - Venus is at a quarter phase though
  - If space were empty except for two nearby masses, then the drops of water would be gravitationally attracted to each other. How about all space being filled with water except two bubbles. How would the bubbles move?
    - The bubbles would attract! Can you figure out why?
  - Betelgeuse is getting a bit brighter!
  - This is the time of the year to observe the Zodiacal Light,
    - which traces the ecliptic, and is the brightest of the year.
    - It should intersect the milky way at 60 degrees.
    - Go out to a dark site and check it out!
- Meet the Messiers with Sean!
  - Messier 5, NGC 5904
  - 25,000 light years from Earth
  - 6.7 magnitude, not visible to the eye :(
  - Discovered by German astronomer Gottfried Kirch in 1702
  - Stars formed more than 12 billion years ago
  - Few massive stars
  - “Laggard youngsters” - young blue stars among the ancient stars.
- Astro News of the Week with Shavonne!
  - 1800 degrees Fahrenheit exoplanet
  - 25x closer to its star than Mercury is to the Sun
  - 18 hour period around its star
  - Probably tidally locked
  - Will either become tidally destroyed and torn apart, or spiral into its star
  - <https://www.google.com/amp/s/nypost.com/2020/02/20/astronomers-discover-18-00-degree-planet-with-18-hour-years/amp/>
- Other Astro/Club Announcements
  - Physics Club
    - Alternate Wednesday meetings with TIMESTEP.
    - Fun meetings with Physics undergrads and Faculty presentations!

- Go check it out! Next meeting is Feb 26th, this week!
    - PAS 218
  - ATOMM
    - Tutoring for physics, astronomy, and math by experienced graduate students
    - In the Parker Library in Steward
    - ATOMM Schedule:
      - Tuesday: 2 - 4pm
      - Wednesday: 3 - 5pm
      - Thursday: 1:30 - 3:30pm
  - Astronomers!
    - Snacks available for \$1 or less
    - Proceeds go to your local Astroclub!
    - Located in the shelves in the kitchen area by Parker Library on the 3rd floor
    - In Stock: candy bars, chips, snack packs, granola bars.
    - A modest proposal: no theft please
  - Club T-shirts!
    - If you have any information on someone who could help design a new t-shirt, let us know!
- Star Parties
  - Interested in teaching kindergarteners for a day about our Solar System? Email [kayliglidic@email.arizona.edu](mailto:kayliglidic@email.arizona.edu) for details!
  - Thursday, 3/5: Stafford K8 School
  - Sign-up sheets will be sent out after the meeting!
  - Reminder: Must pay dues before attending a star party
- Spring trip + star parties
  - Reminder: Must have attended at least one-star party before Spring Trip (or present Astro News of the Week)
  - Currently only three-star parties before Spring Trip (April 10-12)
  - We politely ask people who have already attended a star party to let other people have the chance to sign-up
  - There will be plenty of opportunities in the late spring + fall!
  - Thank you for enthusiasm and assistance!
- Cochise College Math and Science Day
  - Come with the College of Science ambassadors to Cochise College!
  - Friday, April 24th
  - **All-day event 7am-4pm (including travel time)**
  - Teach 4-6th graders about cool topics in astronomy! We'll specifically be doing a comet making demo
  - Contact Mackenzie at ([mmjames1@email.arizona.edu](mailto:mmjames1@email.arizona.edu)) if you are interested!
  - You working with science ambassadors for the college of science
- Astrophotography

- After the club photo
- Proper presentation today, stay after meetings for more info ;P
- Spring Trip Info
  - Location: Los Angeles/Pasadena
  - Dates: Friday, April 10th (5:30 am) - Sunday, April 12th (early evening)
  - Itinerary:
    - Private NASA JPL Tour (Friday)
    - California Science Center (Sat.)
    - Mt. Wilson Observatory (Sat.)
    - Joshua Tree National Park (Sun.)
  - Requirements:
    - Attend at least one-star party OR present Astro News of the Week
    - Must have already done it OR signed up for a date before April 10
    - You will be taken off the waitlist without attendance
    - Pay club dues (\$10)
    - Pay trip costs (estimated ~\$105-\$150)
  - Additional Information:
    - Transportation: 4 University of Arizona Vans (Motorpool)
    - Max People: 24
    - Lodging: Hotel Le Reve, Pasadena
    - 4 people per room (two Queen beds)
  - Observing at Mt. Wilson 60-inch Telescope?
    - Opportunity to use 60-inch for visual stargazing!
    - Would follow already planned private tour of mountain + telescopes
    - Cost for Half-Night: \$1,050
    - \$44 dollars extra per person
  - Expenses
    - Option 1:
      - No Mt. Wilson Observing
      - \$105 per person
    - Option 2:
      - Mt. Wilson Observing
      - \$150 per person
    - Poll will be sent out!
- Dues
  - \$10 a semester
  - Used to fund astronomy club extracurriculars and supplies
- Club Photo!
  - Today!

