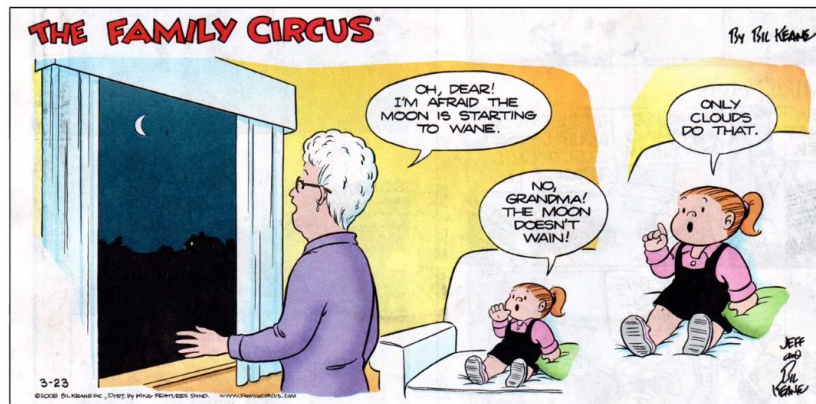


## Meeting Minutes 9/4/2020

- First AstroClub meeting minutes of the semester! To those reading this, hi. I'm your secretary, Savannah.
- Club Officer/Advisor Introductions
  - David Cantillo - President
  - Sai Krishanth - Vice President
  - Harrison - Treasurer
  - Kayli - Outreach Coordinator
  - Savannah - Secretary
  - Grace - Historian
  - Hannah - Tech Officer and Meme Maker
  - Sean - Equipment Manager
  - Yancy Shirley - Club Advisor
  - Don McCarthy - Recurring Speaker
  - David Smith - Student Advisor for Physics and Astronomy students
  - Gurtina Besla - TIMESTEP Organiser
- Meet the New Members! (Breakout Rooms)
- About TIMESTEP
  - TIMESTEP - Led by Dr. Gurtina Besla
  - Next meeting: Attending Virtual Academic Conferences
  - When/Where: Wednesday, September 9th over Zoom at 5 pm
  - You must [register your UA email](#) in advance to receive the Zoom link
- About Astronomy Club
  - Student-run organization promoting and sharing our interests in space to the university and local Tucson community
    - Represent student needs regarding astronomy education and outreach
    - Provide fellowship between professors and students
    - 50+ active members
    - Club Advisor: Yancy Shirley
    - Club Speaker: Don McCarthy
  - Weekly Friday meetings at 4 pm
    - Student and faculty presentations
    - Minigames (Kahoot)
  - Extracurricular Activities
    - Star parties for local schools and other organizations
    - Semester trips up to Kitt Peak
    - Game nights and sport nights
    - Yearly spring trip
    - New: Astrophotography (ask Sai)
  - How Can I Get Involved?
    - Attend our Meetings!

- Next meeting: next Friday at 4 pm
  - Sign up on our Mailing List
  - Meeting reminders, club activities
  - Pay Dues - Planning on charging \$0 this semester
- What Up Astronomy Club? with Yancy
  - What's up in the sky?
  - Go out after sunset, see Jupiter and Saturn South/Southeast near Sagittarius
  - Saturday - 7:18 (AZ time) Red Spot meridian transit
  - Mars is rising ~hour after sunset in the East, and even brighter than Sirius
    - Will be close to the Waning Gibbous moon
  - Webcam Stargazing
    - Tau Lodge -25° latitude
    - Something moving in the sky, what is it? A plane? Ufo? Comet? Meteor? The ISS!!!
    - Phaet, why it is fainter than the other two stars.
- Astronomy Question of the Week with Don
  - Welcome Freshmen!
  - CV-19 Behavior - these make a big difference
    - Wear your masks!
    - University of Arizona Health Promotion Ambassadors
      - Bianca Payan and Ramy Al-Kubessi
      - Any student can become an ambassador
    - This weekend is really important for flattening the curve
    - <https://publichealth.arizona.edu/news/2020/uarizona-students-health-promotion-ambassadors-team-support-reentry>
    - <https://moodle.publichealth.arizona.edu/enrol/index.php?id=343>
  - Why would grandma be a bad influence?
    - It's like 3am at night!



- Can you explain everything in this photograph?
  - Airplane vs satellite
    - Airplane!

- The flashes get closer together because the perspective on the plane is changing.
- Why is the sky brighter near the horizon?
  - Light pollution



- What is the highest location on Earth?
  - Mount Everest - highest above sea level
  - Mauna Kea - highest from base to peak
  - Mount Chimborazo - furthest from the Earth's center
- Moonrise seen by a weather satellite.
- Meet the Messiers with Sean
  - Messier #14 or NGC 6402
  - Apparent magnitude 7.6
  - 30,300 light years from Earth
  - Discovered by Messier in 1764
  - In summer 1938, M14 had a nova take place within it, very rare for a cluster of its kind. The nova reached a maximum brightness of +9.2.
- Astrophotography with Sai
  - A series of random, possibly fun, facts about astrophotography and/or photography in general
    - ASORPFFAAAOPIG
    - (asorp-fao-pig)
  - Noise
    - Signal to Noise ratio
    - Poisson statistics (sounds pretty fishy to me...) causes random noise
    - Stack the images - get a better picture
      - But you can't just use a bunch of copies of the original picture
      - Get a bunch of different takes
      - Stacking gets rid of the random noise and leaves what's real

- Check out APOD - Astronomy Picture of the Day
- Wizard Nebula
- General Club Announcements
  - ATOMM
    - Tutoring for physics, astronomy, and math by experienced graduate students
    - M (2-4 pm) Yujing Qin
    - T (noon - 2 pm) Ryan Keenan
    - W (1-2 pm) Ryan
    - Th (2-3 pm) Yujing
  - Dues
    - We will be dropping dues from \$10 to \$0 this semester (assuming club members approve)
    - Will send out sign-up sheet for active member list at next meeting
  - Astro News of the Week
    - Are people interested in continuing this segment?
    - We are looking for volunteers (will send out sign-up sheet)