

Meeting Minutes 11/13/2020

- General Club Announcements
 - ATOMM
 - Tutoring for physics, astronomy, and math by experienced graduate students (over Zoom!)
 - M (2-4 pm) Yujing Qin
 - T (noon - 2 pm) Ryan Keenan
 - W (1-2 pm) Ryan
 - Th (2-3 pm) Yujing
 - Game night next Friday after the meeting!
 - TIMESTEP
 - Second meeting of graduate application workshop: November 18th
 - Must register in advance
 - Email Vasileios Paschalidis (vpaschal@arizona.edu) to receive Zoom link
 - Physics Club
 - Next Meeting: November 25th at 5 pm
 - They will be discussing upcoming officer elections (all positions are available...)
 - Talk to Grace if you have any questions!
 - End of Semester Slideshow
 - Do anything interesting this semester? Took a trip with your friends? Did some astrophotography you want to share with the club?
 - If you documented anything about your life this semester we'd love to see it!
- Officer Election Information
 - Positions:
 - President
 - In General: Knows What's Up at all times with astro club
 - Includes club events, star parties, funding, etc.
 - Liaison to university community
 - Official representative of club
 - Runs club and officer meetings
 - Should be comfortable talking in front of large groups of people
 - Inspires enthusiasm for astro club!
 - Vice President
 - Help president with anything they may need
 - Organize and coordinate club events
 - Responsible for sending information about club events to members
 - Treasurer
 - Maintain accurate account of all organizational funds
 - Ensure club members pay semester dues

- Authorize purchases for club activities/events
 - Reach out to ASUA for supplemental funding when needed
- Outreach Coordinator
 - In General: Organize Star Parties
 - Organize star parties and come up with new activities
 - Manage star party activity inventory
 - Liaison between Astro Club and the Public
- Secretary ()
 - Make Meeting Minutes!
 - Maintain the roster of current members
 - Responsible for organizing current and accurate club records
 - Coordinate information communication with VP
- Tech Officer
 - Stuff the current Tech Officer does:
 - Website management and upkeep
 - Social media communication
 - Advertising design and general graphic design
 - Business cards, table banner, etc.
- Historian ()
 - Capture beautiful astroclub moments in picture form
 - Creates end of semester slideshows
 - End of the year scrapbook
 - Help with star parties
- Equipment Manager
 - Helps manage/keep track of our outreach equipment
 - Includes telescopes (and accessories) and supplies for our outreach activities
 - Works with the outreach coordinator
- Application Information:
 - Elections will be held December 4th with applications being due November 27th
 - Application Format
 - Name:
 - Year:
 - Picture:
 - What position are you applying for and why you want that position:
 - Submit Officer Application Google Form if interested (will be sent out tonight via Sai)
- End of Semester Timeline
 - Only two more meetings left after today!
 - November 20th - Club Meeting
 - Game Night
 - November 27th - No Club Meeting (Happy Thanksgiving!)
 - Officer Application Due (Google Form)

- Photos for Slideshow are Due (email Grace)
 - December 4th - Last Club Meeting
 - Officer elections, Slideshow, Yancy Astrokahoot, and Game Night
- Astronomy Question of the Week with Don
 - Will the real moon please stand up?
 - What causes different colors of the full moon?



- Particles in the air (smoke, dust, volcano smoke)
 - Eclipses
 - Large particles could make the moon blue
 - What do these terms have in common?
 - UHF, debris disk, s-band, Leo, 2 cm, LEO, kessler syndrome, 90min, etc
 - Radar!
 - 17,226 objects currently being tracked
 - LeoLabs is the world's first and only supplier of commercial radar tracking of low earth orbit satellites
 - From 300 to 2,000 km altitude
 - As of 2020, there are about 14,000 objects greater than 10cm across
 - Less than two thousand of these objects are functional satellites
 - There's a whole lot of debris up there?
 - Phased array radar
 - Can switch between objects every millisecond
 - Kessler Syndrome - scenario in which the density of objects in low earth orbit due to space pollution is high enough that collisions between objects could cause a cascade in which each collision generates space debris which increases the likelihood of more space collisions
- Astro News of the Week with Savannah
 - Observed a GRB from a kilonova
 - Kilonova = collision between two neutron stars
 - This one created a magnetar!

- <https://cosmosmagazine.com/space/astronomy/astronomers-detect-rare-kilonova-explosion/>
- Observatory by Storytime with Harrison
 - Sphinx Observatory
 - Located in Switzerland at 3,571 m above sea level
 - 76cm cassegrain telescope no longer in use
 - Solar spectrometer
 - Workshop to maintain the laboratory
 - 2 large laboratories
 - Meteorological dome with a weather station
 - Focuses on meteorology, climatology, cosmic ray/radiation monitoring, high-altitude biology/physiology
 - Viewing deck, shopping center (???) open to the public
 - Apparently a tourist destination!
 - <https://www.jungfrau.ch/en-gb/jungfraujoeh-top-of-europe/>
 - Also nearby: Pic du Midi in the French Pyrenees and Gornergrat in Switzerland
- AstroKahoot!