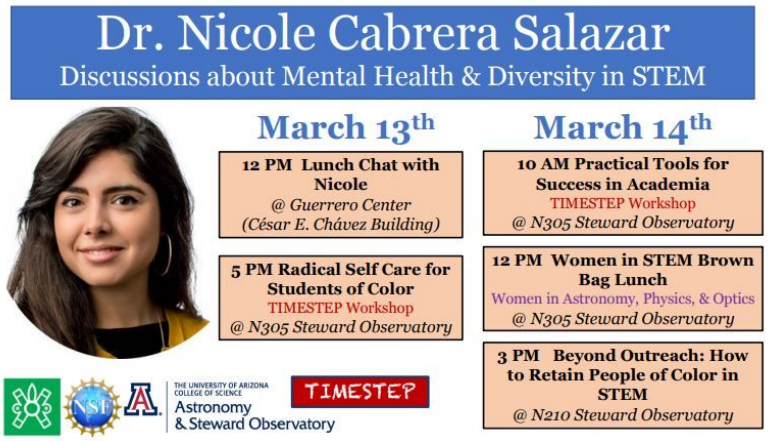
Meeting Minutes 2/23/18

- **ATOMM:** is still a thing, everyday 1-2:30pm in the Parker Library across from N305

- **TIMESTEP:** The next meeting will be February 28th at 5pm in Steward N305. There will be pizza! The topic at this meeting will be What it's like to be a Graduate Student & Bridge Programs. Come hear from graduate students about the realities of grad school, as well as the programs that bridge between undergraduate and graduate school.
    - Also hear from Dr. Nicole Cabrera Salazar! Who will hold discussions about mental health and diversity in STEM



- **Don's Question of the Week**
    - What's going on? There's a long exposure image of the night sky with a solid line across the middle and pairs of dots on each side of it. It's a plane, but how can you tell it's a plane? It blinks. Trail is 40 degrees across the sky. Using this information plus the time interval (aka the number of pairs of dots you see) you can find its distance and altitude
    - How much brighter should a Full Moon appear than a First Quarter Moon? "The moon's face is splotched with dark regions. The end result is that the first quarter is 1/11th the brightness of a full moon" More info to be found here -> http://www.space.com/11162-10-surprising-moon-facts-full-moons.html
    - http://www.asterism.org/tutorials/tut26-1.htm: Apollo astronauts reported that a true full Moon is about 30% (0.2 magnitudes) brighter than what we see here on Earth.
    - Heiligenschein ("Holy Light") - 'shadow-hiding' - when you look down the angle of the Sun, there are no shadows, there is max reflection of the light. Becomes more prominent with higher altitudes.

- **Astro News of the Week:** Presented by Ryan Webster -> http://tucson.com/news/local/kitt-peak-s-versatile-mayall-telescope-getting-overhaul-in-s

earch/article_dfcd3859-9d09-5ec2-9bc2-6cba492161c9.html?utm_medium=social&utm_source=email&utm_campaign=user-share

- http://www.astronomy.com/news/2018/02/amateur-astronomer-gets-1-in-10-million-shot-of-supernovas-first-light
- 4m telescope on Kitt Peak is getting a spectrograph which they will use to observe galaxies for research on dark energy. The secondary mirror weighs as much as a school bus! Dark Energy Spectroscopic Instrument (DESI)
- Amateur astronomer caught first light of a supernova back in 2016, chances of this happening are 1 in 1 million to 1 in 100 million
- Don't forget to sign up for Astro News of the Week! Talk about the cool space happenings!

- **Star Parties:** We have enough volunteers for the one on March 1st, but we could use a couple more for the one on March 2nd at San Cayetano Elementary from 6-7:30pm. There will also be a star party on March 26th at Donaldson Elementary from 5:30-7pm, the sign up sheet for this will be sent later.

- **Laser Fun Day!** Will take place on April 7th 10am-3pm. Volunteers get a free tshirt, pizza, and eegees! AstroClub will be running the solar telescopes!

- **Telescope Observing at Steward:** It's still a thing! Monday-Thursday, 7-10pm!

- **Guest Speaker! Catherine Inzirillo**
    - Beyond Terraluna: The Fusion of Dance and Astronomy
    - Choreography as Research - creative research. Investigation of new ideas, experimentation with movements, trial and error, editing, adapting for the unexpected
    - Purpose of project - create modern dance work the accurately portays five different astronomical topics through movement, staging, and production design. Blend quantitative and qualitative fields to create art that is strongly based in scientific fact and theory.
    - Research Questions - how to use astronomical topics to inspire choreography? How to find a balance between literal and abstract interpretation when creating the work?
    - The Five Sections: Expedition - inspired by space exploration, robotics and engineering, sense of curiosity and discovery. Solaris - inspired by Sun and Solar System, characteristics of the Sun and planets, elliptical form of the solar system, theorized formation and end of it. Tidal - inspired by moon-planet interplay, tidal forces, gravitational attraction between planets and their moons. Singularity - inspired by black holes and the Theory of Relativity, gravitational waves, flexibility of spacetime, event horizon. Sidereal - inspired by the science of stars, their lives, star systems, spectral scale, constellations, nebula.

    - Next steps - incorporate more of a humanistic element into the choreography, make sure to find a balance in the elements of the choreography
    - Show will be happening at the Stevie Eller Dance Theatre - May 5th and May 6th at 1:30pm, (and 7:30pm on May 5th)
    - More info at uarizonadancegrads.wixsite.com/etcetera

- **San Diego Trip:** Will take place April 6-8th, max number of 21 people can go. We'll have a more in depth meeting after club next week (2/23) for those who are interested. You must have paid dues and volunteered at a star party in order to go!

- **Radio Project!** Astro club has some observing time at the 12 meter on Kitt Peak March 3, 4, 5th! The shift runs from noon-10pm. Sign up if interested! There was a meeting held by Yancy after club to get into the details of the research, info will be sent out to those on the sign up sheet.

- **Pay yo dues:** $10 per semester.

Or should I say "due" it