This year January had two full moons, so poor February has none. The second full moon (a blue moon) was on January 31 and was both a super moon (near perigee) and also an eclipse. Trifecta!

**Solar System:** The *lunar eclipse* on Jan 31 on the horizon at dawn was imaged by Mark Zdziarski and by Bob Vanderbei (http://www.princeton.edu/~rvdb/images/Questar/LunarEclipse18.html)
Clif Ashcraft imaged the moon near first quarter showing ancient wrinkle ridges in slanted sunlight in Mare Imbrium. See his website at: [https://www.wa2guf.org/lunar-images](https://www.wa2guf.org/lunar-images)
Helder Jacinto got beautiful detail in a gibbous moon.

**Stars:** Steve Lowe took a spectrum of P Cygni, a hot star with emission lines from hot gas which it is blowing outwards.

**Nebulae:** Clif imaged M42 for only 10 minutes as a guiding test. Steve Lowe took a *spectrum of the ionized gas in the Orion Nebula*. He pointed the slit of the spectroscope at the gas only (no stars) and found many emission lines including H, O, N, He. Helder took five hours to image *supernova remnant Simeis 147*, the faint and notoriously difficult Spaghetti Nebula from Union NJ, which is very cold as well as “crazy light polluted.”
Tony Sharfman added a 10 hour image of this nebula to his website
https://tonysharfman.myportfolio.com/astrophotography
Helder also took 11 hours to image NGC 2175, the Monkey Head Nebula in Orion’s upraised arm about 6300 light years away from us, much farther than M42.

**Presentations:** Helder has an exhibit of his astrophotography from 1/11 to 3/29 in the Gallery in the Kenilworth Library, 548 Boulevard, Kenilworth, NJ 07033. You should go and admire his terrific work, some of which is for sale.

**Other:** Clif has finished his *homemade ONAG* (on axis auto guider) in aluminum and is experimenting with auoguiding by software SkyX and PHD2.
Dennis Conti attended the American Astronomical Society meeting in Washington DC, January 8-12.

*Respectfully submitted, Mary Lou West, Research Chair*