

Eugene Astronomical Society



# IO - February 2019

Eugene Astronomical Society  
 Annual Club Dues \$25  
 President: Andrew Edelen 618-457-3331  
 Secretary: Jerry Oltion 541-343-4758  
 Additional Board members:  
 Oggie Golub, Jim Murray, Ken Martin.

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[www.eugeneastro.org](http://www.eugeneastro.org)

EAS is a proud member of  
 The Astronomical League



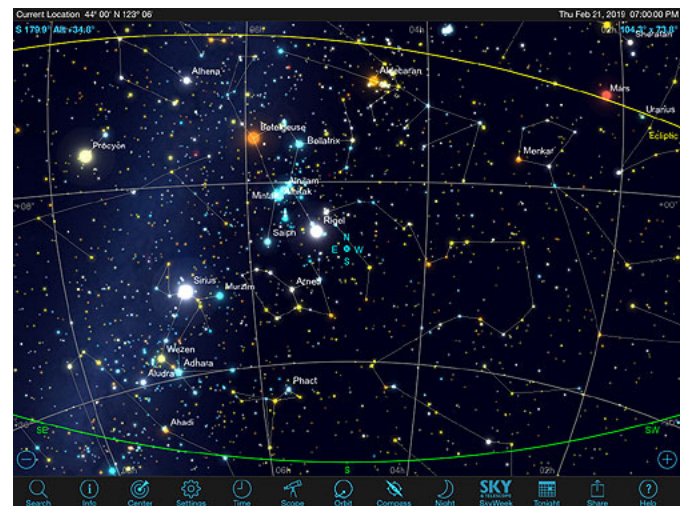
Next Meeting Thursday, February 21st 7:00 p.m.

## Bag Some Trophies with Sky Safari by Jerry Oltion, Dan Beacham, and Oggie Golub

Sky Safari has become the planetarium program of choice for just about anyone with a phone or a tablet. This versatile program can display the night sky with incredible accuracy. It allows you to zoom in and out with ease, adjust the number of stars it shows, provides realistic images of deep sky objects, and can even tell you what part of the sky you're looking at if you're not sure. You can create custom observing lists, which the program can highlight in the starfield, and if your telescope is capable of computerized control, it can aim your scope for you. And that's just a fraction of what it can do.

The problem with such a feature-filled program is that learning to use it effectively can be a real stretch. By popular demand among club members, Jerry and Dan and Oggie will present a tutorial on how to get the most out of Sky Safari. Come see what it's capable of, and bring questions.

The meeting is at 7:00 on Thursday, February 21st at the Science Center planetarium.



## Next First Quarter Friday: February 15th

Our January 11th star party was clouded out, but our backup star party on the 12th went well. We had three telescopes for a dozen or so people, so it was a good mix.

Our next attempt will be February 15th. First Quarter Fridays are laid-back opportunities to do some observing and promote astronomy at the same time. Mark your calendar and bring your scope to the College Hill Reservoir (24th and Lawrence in Eugene) and share the view with whoever shows up. Here's the schedule for the rest of the year. Star parties start at dusk or 6:00, whichever is later. (6:00 in February.)

February 8 (15% lit)  
 May 15 (68% lit)  
 August 9, (75% lit)  
 November 1 (28% lit)

March 15 (68% lit)  
 June 7 (27% lit)  
 September 6 (61% lit)  
 December 6 (76% lit)

April 12 (54% lit)  
 July 5 (19% lit)  
 October 4 (44% lit)

# January 17th Meeting Report

## Telescope Workshop

Our January meeting was our annual telescope workshop, where we invite the public to bring telescopes that they either need help learning how to use or need help tuning up. This year the *Register-Guard* published a feature article on the front page of the City section about our workshop, so we had a pretty good turnout. Eight people brought telescopes ranging from the usual hobby killers (two of those) to a venerable old homebuilt Dob, to an old computerized Maksutov that, *mirabile dictu*, still worked.

Everyone seemed happy with the help they received, and a couple of people said they might even join the club and go out observing with us. You can't beat that for decent community relations.

# January 20th Total Lunar Eclipse Report

In a word: Thhhbbp! We were totally clouded out for the best eclipse in years. The Moon was barely visible at all in most parts of the valley, and even then only for brief glimpses. The best photo taken locally was by Bill Murray, who captured the partially eclipsed ingress peeking through the clouds.

Wes Magyar, observing from Florida, had a little better luck. He had clear sky and took a video with



Photo © by Bill Murray



Photo © by Wesley Magyar

his iPhone, in which he captured a meteor strike just after the beginning of totality. The strike was in the deepest portion of the eclipse, so it stood out nicely against the background. This is a frame grab from the video Wes posted on YouTube at: <http://www.youtube.com/watch?v=42d1jSTsfWI>

Watching a meteor strike the Moon is one of those fantasies we all dream about but never see. Turns out the flash of all but the biggest strikes is too brief and too dim for a person to notice directly, but Wes's camera picked it up beautifully. Thanks, Wes, for sharing such an amazing discovery!

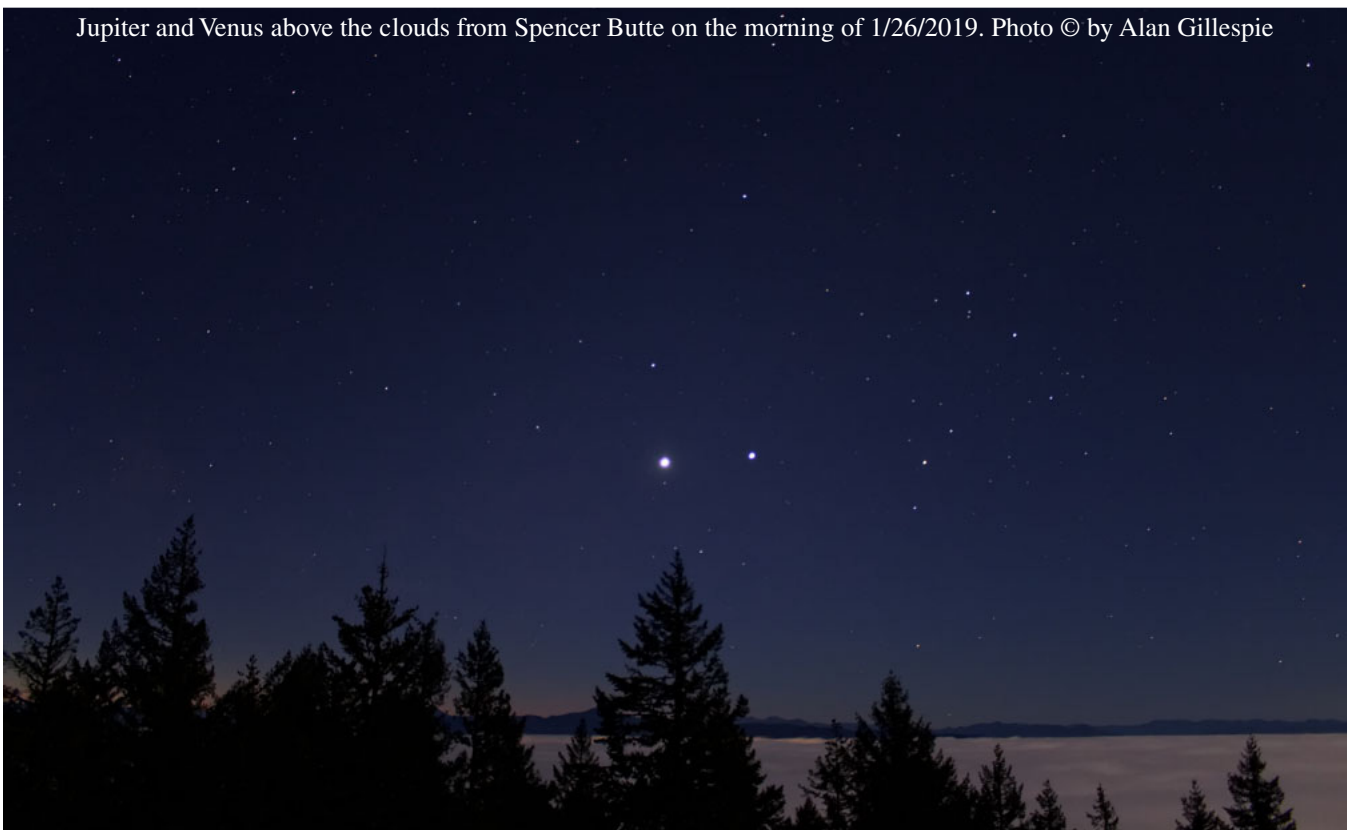


## Thank You Storage Junction

Storage Junction has donated the use of a storage unit for us to hold our loaner telescopes when they're not in use. EAS would like to thank Storage Junction for their generosity and support for our group. Please give them a call if you need a storage space, and tell your friends. Storage Junction is located at 93257 Prairie Road (at the intersection of Hwy 99 and Hwy 36, 3 miles south of Junction City) Phone: 541-998-5177

## Photo Gallery

January provided more interesting views of clouds than of celestial phenomena, but Alan Gillespie got some nice shots of both, and Jeff Phillips was able to test his new camera setup through enough sucker holes to produce two excellent deep-sky astrophotos. Enjoy!

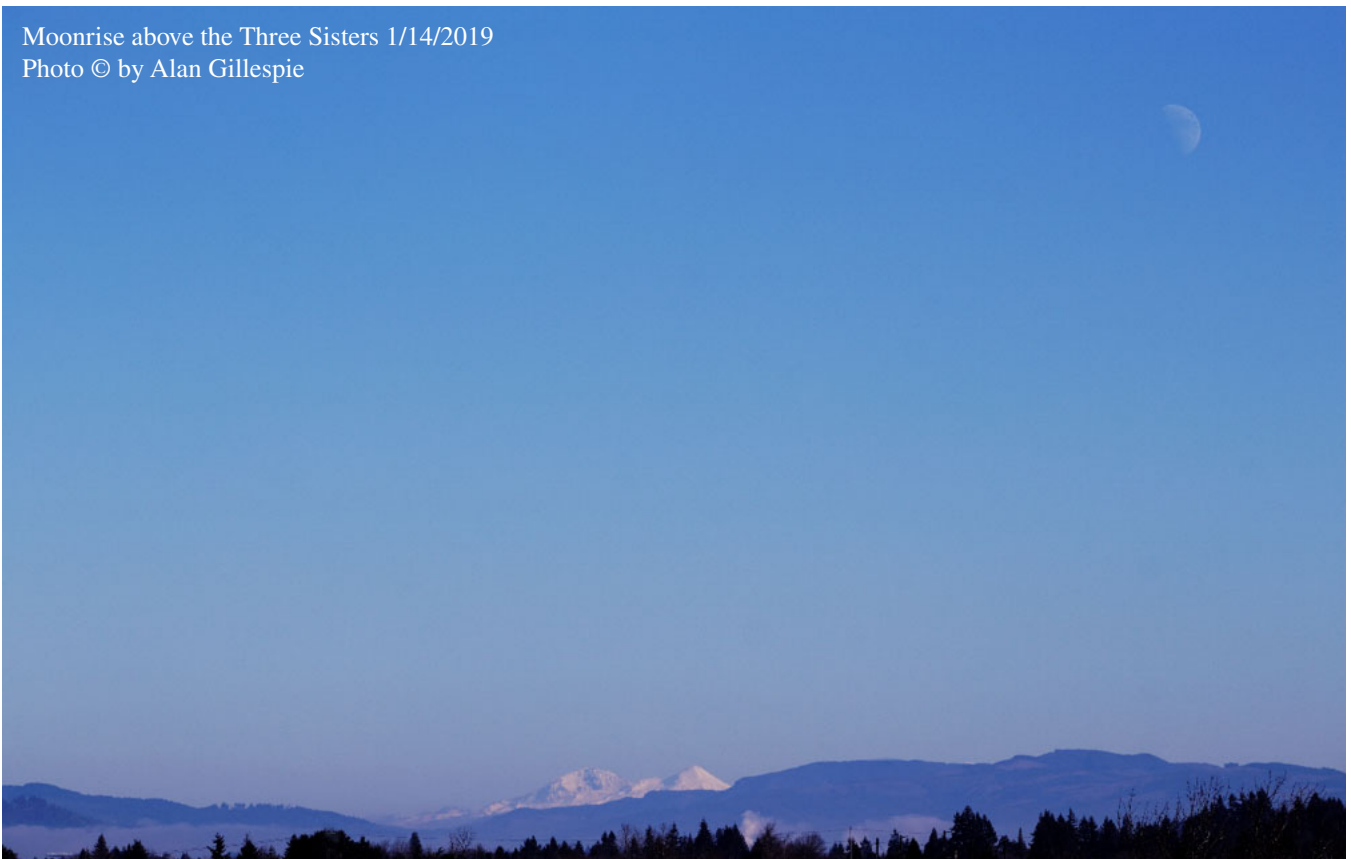




The Moon (center), Venus (above right), and Jupiter (bottom)  
through fog on 1/2/2019. Photo © by Alan Gillespie



Moonrise above the Three Sisters 1/14/2019  
Photo © by Alan Gillespie



M92 in Hercules  
Photo © by Jeff Phillips

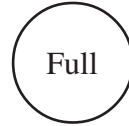


M42 in Orion  
Photo © by Jeff Phillips





# Observing in February



Feb 4, 1:04 PM	Feb 12, 2:26 PM	Feb 19, 7:54 AM	Feb: 26, 3:28 AM
Mercury lost in Sun	Mercury Set: 6:30 PM	Mercury Set: 7:08 PM	Mercury Set 7:33 PM
Venus Rise: 4:42 AM	Venus Rise: 4:50 AM	Venus Rise: 4:56 AM	Venus Rise: 4:59 AM
Mars Set: 11:20 PM	Mars Set: 11:17 PM	Mars Set: 11:15 PM	Mars Set: 11:13 PM
Jupiter Rise: 3:54 AM	Jupiter Rise: 3:29 AM	Jupiter Rise: 3:06 AM	Jupiter Rise: 2:43 AM
Saturn Rise: 5:50 AM	Saturn Rise: 5:22 AM	Saturn Rise: 4:57 AM	Saturn Rise: 4:32 AM
Uranus Set: 11:45 PM	Uranus Set: 11:15 PM	Uranus Set: 10:49 PM	Uranus Set: 10:23 PM
Neptune Set: 7:56 PM	Neptune Set: 7:26 PM	Neptune Set: 6:59 PM	Neptune lost in Sun
Pluto Rise: 6:16 AM	Pluto Rise: 5:46 AM	Pluto Rise: 5:19 AM	Pluto Rise: 4:52 AM

All times Pacific Standard Time (November 4, 2018 - March 9, 2019 =UT -8 hours) or Pacific Daylight Time (March 10 - Nov. 2, 2019 = UT -7 hours)

Date	Moon Rise	Moon Set	Twilight Begin	Sun Rise	Sun Set	Twilight End
2/1/2018	05:24	14:42	05:51	07:30	17:23	19:02
2/2/2018	06:13	15:33	05:50	07:29	17:24	19:03
2/3/2018	06:56	16:28	05:49	07:28	17:25	19:04
2/4/2018	07:33	17:26	05:48	07:26	17:27	19:05
2/5/2018	08:06	18:25	05:47	07:25	17:28	19:07
2/6/2018	08:35	19:25	05:46	07:24	17:29	19:08
2/7/2018	09:02	20:25	05:45	07:23	17:31	19:09
2/8/2018	09:26	21:25	05:44	07:21	17:32	19:10
2/9/2018	09:51	22:26	05:42	07:20	17:34	19:11
2/10/2018	10:15	23:28	05:41	07:19	17:35	19:13
2/11/2018	10:42		05:40	07:17	17:36	19:14
2/12/2018	11:12	00:32	05:39	07:16	17:38	19:15
2/13/2018	11:47	01:38	05:38	07:15	17:39	19:16
2/14/2018	12:29	02:46	05:36	07:13	17:41	19:18
2/15/2018	13:21	03:52	05:35	07:12	17:42	19:19
2/16/2018	14:22	04:56	05:34	07:10	17:43	19:20
2/17/2018	15:32	05:53	05:32	07:09	17:45	19:21
2/18/2018	16:49	06:42	05:31	07:07	17:46	19:23
2/19/2018	18:08	07:24	05:29	07:06	17:47	19:24
2/20/2018	19:26	08:01	05:28	07:04	17:49	19:25
2/21/2018	20:43	08:34	05:26	07:03	17:50	19:26
2/22/2018	21:56	09:04	05:25	07:01	17:51	19:28
2/23/2018	23:08	09:34	05:23	06:59	17:53	19:29
2/24/2018		10:04	05:22	06:58	17:54	19:30
2/25/2018	00:16	10:37	05:20	06:56	17:55	19:31
2/26/2018	01:22	11:13	05:19	06:55	17:57	19:33
2/27/2018	02:23	11:53	05:17	06:53	17:58	19:34
2/28/2018	03:20	12:38	05:15	06:51	17:59	19:35

## Items of Interest This Month

- Good month for spotting Mercury just after sunset. (Greatest elongation on 26th.)
- Good month for zodiacal light after sunset when Moon is not in the sky.
- 2/2 Early morning: Moon 6° below left of Saturn before sunrise.
- 2/2 Cottage Grove Library star party.**
- 2/11 Good night to see Purbach X and the Guitarist (Elvis, Jerry says) on Moon.
- 2/12 Mars and Uranus within 1° of each other.
- 2/15 First Quarter Friday star party.**  
Moon passes Beehive cluster.
- 2/18 Venus 1° from Saturn (early morning).
- 2/19 Moon at perigee and full. Super Moon!
- 2/27 Jupiter and Moon 1.5° apart (early morning).

