

Eugene Astronomical Society



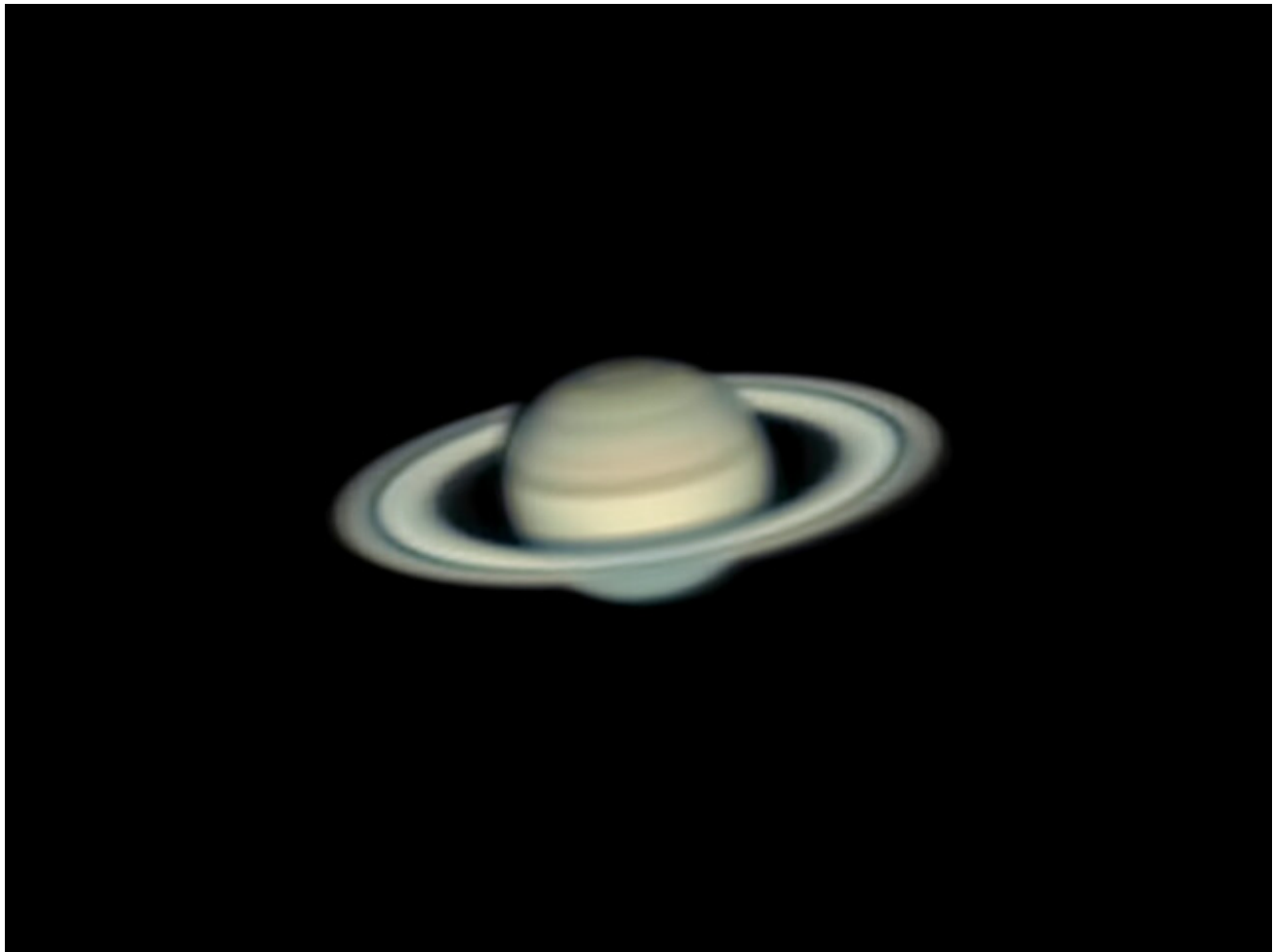
# Io

September, 2021



PO Box 591 Lowell, OR 97452

www.eugeneastro.org



[1] Saturn

Jeff Phillips

President: Andrew Edelen 618-457-3331

Secretary: Randy Beiderwell 541-342-4686

Board Members: Oggie Golub, Randy Beiderwell, Ken Martin, Jerry Oltion

# A Trip to Linslaw

By Mike Curtin

About 10 am on Friday the 6th, Alan Gillespie called and asked if I'd be interested in going to the Linslaw site that night, to which I said yes. He came by about 7:30 that evening and we drove to the site. I was initially a little concerned about the seeing, but as we got further from Eugene the sky got clearer and clearer. For those who haven't been there yet, the view to the south is spectacular. There's a little bit of hill to the north that blocks most of the Eugene sky glow, and a relatively large, flat cleared area for viewing. I don't know if it's typical, but when we were there, there was just enough of a breeze to keep the mosquitoes at bay.

When we arrived, there was an SUV with an 18 foot trailer attached already parked on the site. We met a woman in her late-20's named Randy, her 10 year old son, Miyo and their affectionate German shepherd dog, Luche'.

They were very friendly, and after Alan had set up his camera tripod and refractor scope and mount, he invited them to look through his scope at a couple of different Messier objects. They said that they had never looked through a telescope before, and were very excited by the prospect and enthusiastic about what they saw. We explained to them about the history of Messier objects, and about the differences between refractor and reflector telescopes.

They turned out to be very interested in amateur photography and Alan was able to share with them several tips about how to get better astronomy shots.

At Alan's request, I did something I've never done before at a star party. I brought my acoustic guitar and played it. (We don't need no stinking light to play guitar.) :-). When I played the theme to the Addams Family, everybody, including 10 year old Miyo, snapped their fingers at the appropriate places.

I wound up making my neck sore by staring up so much, but the reward was worth the effort. I saw several dozen meteors and a couple of smaller fireballs. About 5 minutes after Alan had quit having to attend to his equipment and sat down, the big fireball appeared. Randy was looking at the ground and caught it out of the corner of her eye, but all heads came up to see it as it died down, with everyone saying "Wow!". Alan got out his binoculars and watched the smoke trail for about a minute afterwards.

About dawn, Alan and I packed up his gear and headed home. He asked that I drive his Toyota Camry when we got to the highway. I got in the driver's seat and adjusted everything, and had an experience that I haven't had in a passenger car for about 50 years. The seat went back more than 3 inches further than I needed!

We made it safely back, and a good time was had by all. Except for going to the Dexter star parties, this was my first outing to a dark sky site in 4 or 5 years, and I enjoyed it thoroughly.

**Our PO Box has changed!**

**PO Box 591**

**Lowell, OR 97452**

Annual Club Dues \$25

EAS is a proud member of The Astronomical League.



[1] Full Moonrise

Alan Gillespie

## Do you have something for the newsletter?

If you have an article, photo, meeting notes, stories, etc. that you would like to share with the members, please contact me, I'd be happy to add them to the newsletter. If you have photos you would like to submit, I'm trying to include more information about the process and equipment used.

Astrophotographers: I want to offer these pages as a way to not only show off your terrific photos, but to provide us with information on how they are taken and processed. Seeing the amount of work that goes into these amazing images is always fascinating, and makes us appreciate them even more!

Bruce Sackett - [bruce@busymind.net](mailto:bruce@busymind.net)

# September Meeting - September 16, 2021 7PM

PLEASE NOTE THAT ALL MEETINGS ARE CURRENTLY VIRTUAL

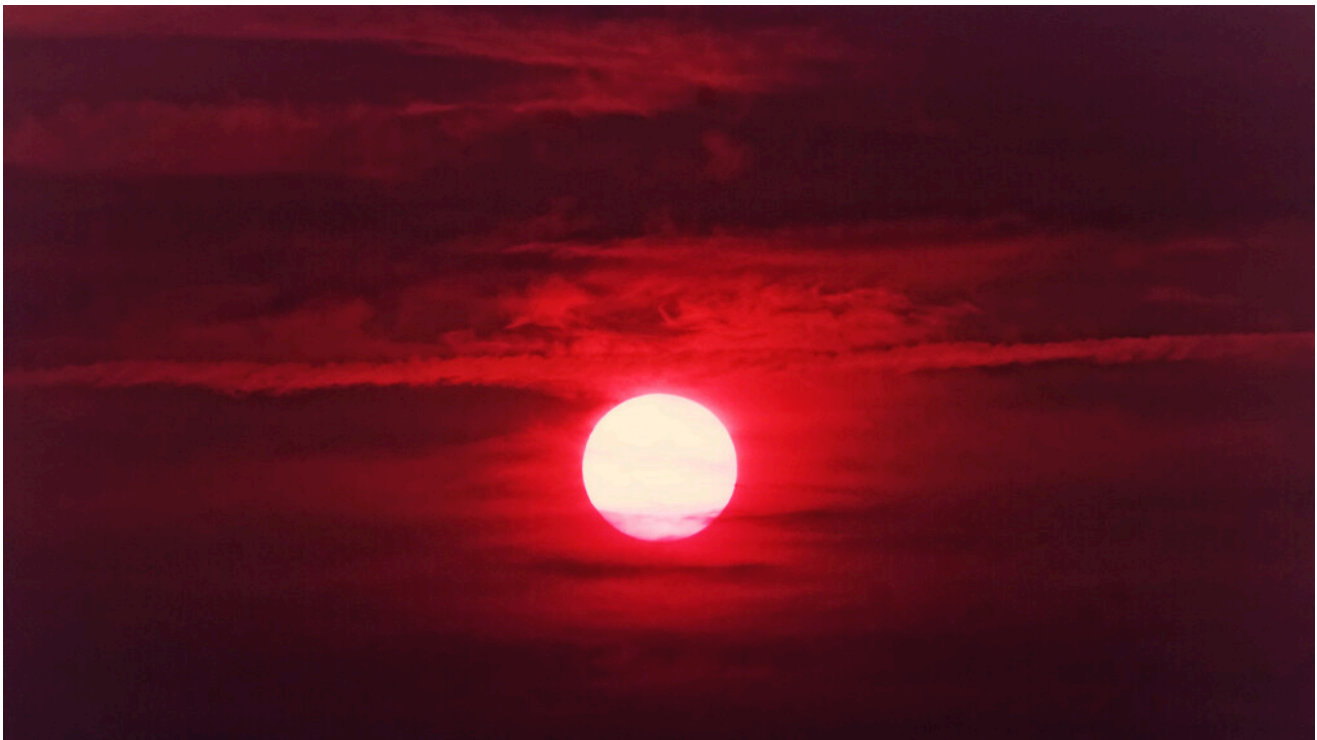
**To be announced**

## August Meeting

This month Jerry shared the incredible new travel telescope he has created and went through a detailed explanation of collimation. Jerry went through the construction and use of his 9.5" travel scope, showing how it breaks down into an amazingly small self-contained unit, with space for eyepieces! His collimation talk was particularly detailed and helpful.

**The video for this meeting can be found at:**

<https://youtu.be/JVK0AihTIK0>



[3] Smokey Sunrise

Alan Gillespie

## Member Astrophotography in this issue

### [1] Saturn by Jeff Phillips

I've built an Exploradome observatory so I can leave the C11 set up on a Losmandy G11 mount. I've been getting up after midnight to get images of Jupiter, but Saturn crosses the gap in the trees first. I shot four 5 minutes videos at 100 frames per second but Saturn started to disappear half way through the last shot. I use a ZWO 224 color camera, and a ZWO ADC to compensate for atmospheric dispersion since Saturn is only 27 degrees up this year. I'm also using an ES 2x telecentric barlow and a GSO external focuser on my C11.

I'm shooting the video with Firecapture, stacking with Autostakkert, sharpening with Registax, combining three images into one with Winjupos, and then fine tuning with Astralimage deconvolution and touching up the color with Paint Shop Pro.

I'm hoping to get better shots next year when Jupiter and Saturn are a bit higher in the sky.

### [2] Full Moonrise by Alan Gillespie

Full Moonrise, Transit, Moonset 082221 DxO AfPhoto ImPPG CS2 8x8: a composite of images of the August 2021 Full Moon taken with the same camera (Canon SL1) on the same telescope (Vixen 102 on CG4 mount) from the same location (home).

Images were taken at Moonrise (235 frames taken from 9:19 pm till 9:29 pm, exhibiting maximum color), Transit (240 frames taken from 00:56 am till 1:07 am, exhibiting maximum detail), and Moonset (282 frames from 4:21 am till 4:39 am, exhibiting maximum Fullness).

Images processed using Fast Raw Viewer, DxO, Affinity Photo, ImPPG, Photoshop CS2, and Windows Photo Gallery.

### [3] Smokey Sunrise by Alan Gillespie

Single frame #6927 taken at 6:44am on 8/15/21, 1/320 sec, f8, Iso100, 75-300 lens at 300mm on Canon SL1. Processed with Fast Raw Viewer, DxO, and Affinity Photo.

# September 2021

Eugene, Oregon, USA

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5 Moonrise: 4:51am Twl A: 4:59am Sunrise: 6:48am Moonset: 7:36pm Sunset: 7:42pm Twl A: 8:24pm	6 Twl A: 5:00am Moonrise: 6:14am Sunrise: 6:41am New Moon: 5:53pm Sunset: 7:41pm Moonset: 8:09pm Twl A: 8:22pm	7 Twl A: 5:01am Sunrise: 6:42am Moonrise: 7:17am Sunset: 7:39pm Moonset: 8:27pm Twl A: 8:20pm	8 Twl A: 5:03am Sunrise: 6:43am Moonrise: 8:31am Sunset: 7:37pm Moonset: 8:50pm Twl A: 9:18pm	9 Twl A: 5:04am Sunrise: 6:45am Moonrise: 9:46am Sunset: 7:33pm Moonset: 9:14pm Twl A: 9:16pm	10 Twl A: 5:06am Sunrise: 6:46am Moonrise: 11:02am Sunset: 7:33pm Twl A: 9:14pm Moonset: 9:41pm	11 Twl A: 5:07am Sunrise: 6:47am Moonrise: 12:20pm Sunset: 7:32pm Twl A: 9:11pm Moonset: 10:12pm
12 Twl A: 5:08am Sunrise: 6:48am Moonrise: 1:37pm Sunset: 7:30pm Twl A: 9:09pm Moonset: 10:30pm	13 Twl A: 5:10am Sunrise: 6:49am First Qtr: 1:41pm Moonrise: 1:25pm Sunset: 7:29pm Twl A: 9:07pm Moonset: 11:39pm	14 Twl A: 5:11am Sunrise: 6:50am Moonrise: 3:59pm Sunset: 7:26pm Twl A: 9:05pm Moonset: none	15 Moonset: 12:33am Twl A: 5:13am Sunrise: 6:51am Moonrise: 4:57pm Sunset: 7:24pm Twl A: 9:03pm	16 Moonset: 1:39am Twl A: 5:14am Sunrise: 6:53am Moonrise: 5:43pm Sunset: 7:22pm Twl A: 9:01pm	17 Moonset: 2:50am Twl A: 5:15am Sunrise: 6:54am Moonrise: 6:20pm Sunset: 7:20pm Twl A: 8:59pm	18 Moonset: 4:03am Twl A: 5:17am Sunrise: 6:55am Moonrise: 6:49pm Sunset: 7:19pm Twl A: 8:57pm
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26 Twl A: 5:27am Sunrise: 7:04am Moonset: 12:34pm Sunset: 7:04pm Twl A: 8:40pm Moonrise: 10:00pm	27 Twl A: 5:29am Sunrise: 7:05am Moonset: 1:35pm Sunset: 7:02pm Twl A: 8:38pm Moonrise: 10:38pm	28 Twl A: 5:30am Sunrise: 7:06am Moonset: 2:32pm Last Qtr: 6:36pm Twl A: 8:36pm Moonrise: 11:29pm	29 Twl A: 5:31am Sunrise: 7:08am Moonset: 3:45pm Twl A: 8:35pm Moonrise: none	30 Moonrise: 12:19am Twl A: 5:32am Sunrise: 7:09am Moonset: 4:27pm Sunset: 6:56pm Twl A: 8:33pm		

DST/Summer Time for the entire month.  
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This month I'm working on returning more of the calendar and astronomy monthly information to the newsletter.

To the right is a new calendar with astronomical twilight, moon rise/set, etc. I'd really appreciate feedback about accuracy, the information provided, etc.

This calendar was generated at [sunrisesunset.com](http://sunrisesunset.com)

Thank you!