Eugene Astronomical Society
www.eugeneastro.org

Io

November, 2021

PO Box 591 Lowell, OR 97452 www.eugeneastro.org

[1] Crescent Nebula - NGC 6888 Andy Nowlen

November Meeting

IMPORTANT - DATE HAS BEEN CHANGED!

- Tuesday, November 16th, 7PM -

Our speaker for our November meeting, Rob Brown, has a conflict on our usual night, so we've rescheduled the meeting for Tuesday, November 16th.

Rob will be talking about silvering mirrors. This is how it used to be done before vacuum-deposited aluminum, and how it's beginning to be done again today due to the increase in mirror size and the cost associated with building and maintaining large vacuum chambers to accommodate them. It's a fascinating topic, full of history and cool chemistry and neat testing methods. Mark your calendars for November 16th and come learn how to make silver stick to glass.

October Meeting

Jeff Phillips gave a talk on planetary imaging at our October meeting. You can find the video on YouTube at the link below:

https://youtu.be/Rtvj9CTrCCE

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!

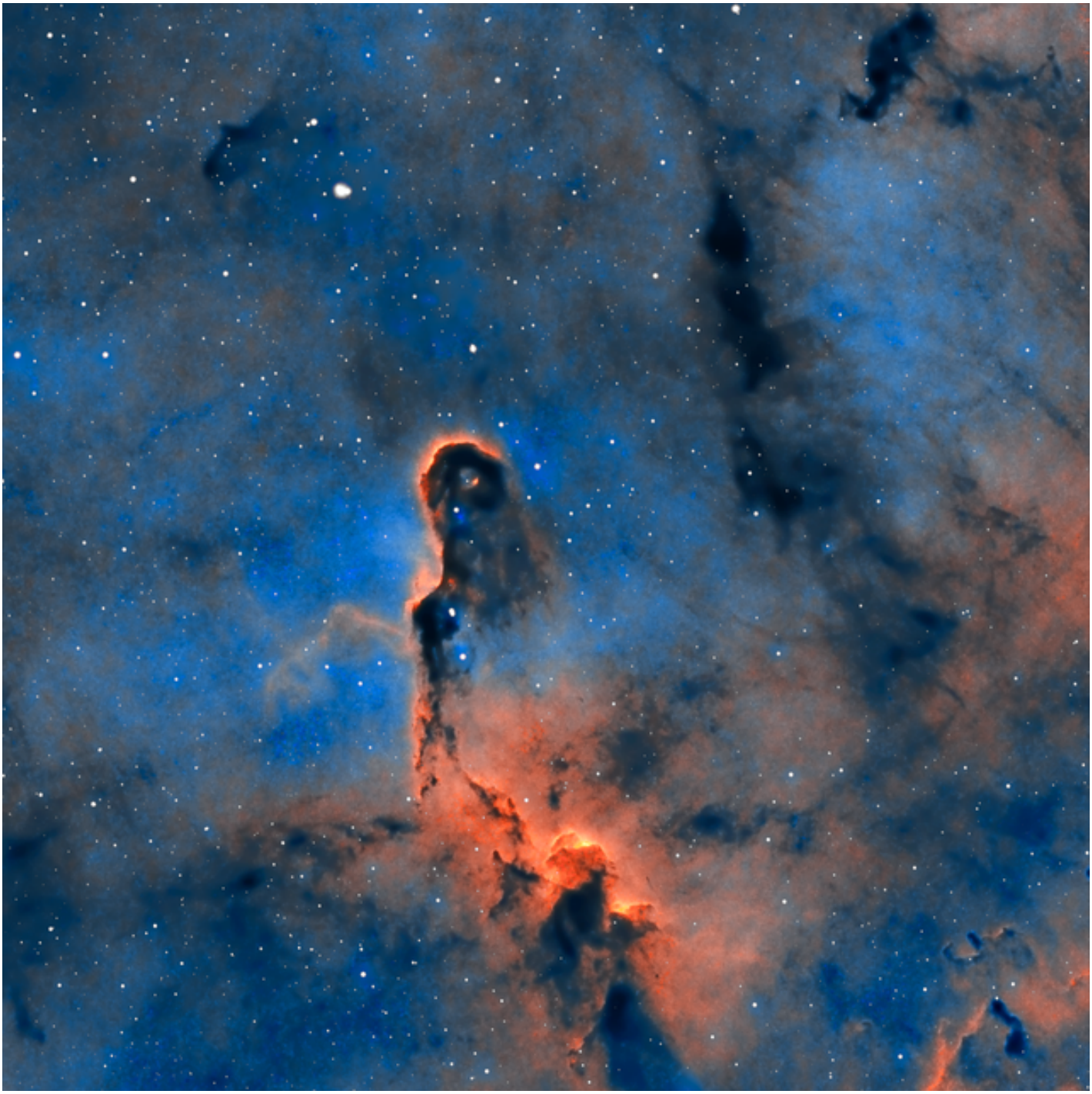
Bruce Sackett - bruce@busymind.net

[2] Orion Alan Gillespie

Eugene Astronomical Society
PO Box 591
Lowell, OR 97452

Annual Club Dues $25

EAS is a proud member of The Astronomical League.



[3] The Elephants Trunk and IC1396 Andy Nowlen

Member astrophotography in this issue

[1] Crescent Nebula - NGC 6888 by Andy Nowlen

This is my first capture of the Crescent Nebula. Actually undertaken on the one-year anniversary of starting into the astrophotography hobby. Also the first night at work in my SkyShed Pod observatory. What a ride.

The Crescent Nebula, in Cygnus, is a cosmic bubble about 25 light-years across, blown by winds from its central, bright, massive Wolf-Rayet star. [via apod.nasa.gov]

I captured this image using two rigs as follows:

October 1, 2021
Mount 1:
Takahashi FSQ 106n @ 530mm
Asi533mcpro
Optolong L-extreme filter
Ioptron CEM40EC mount

Mount 2:
Explore Scientific 102mm @ 714mm
Asi533mcpro
Optolong L-enhance filter
Ioptron CEM40 mount

Integration
131 * 240 seconds
8.5 hours

Processing:
Astropixelprocessor to stack
Pixinsight to start
Photoshop to finish

P.S. This is the first time I have used "Starxterminator" in Photoshop. It is very effective, equalling or exceeding Starnet results, although neither produced a perfect result.

Member astrophotography in this issue

[2] Orion by Alan Gillespie

Orion is one of my most favorite constellations in the sky (Isn't it one of everybody's favorites?). The major stars stand out well, even from my light polluted home. And the nebulas are can be simply stunning. I have been wanting to capture Orion's breathtaking beauty for years. I seem to try again every year. But I am currently restricted to home for medical reasons.

So on the morning of 10/15/21 I got up early to photograph this. The skies measured about 18.65 from my backyard (better than average, but not particularly good). I shot 60 light frames with my 50mm Olympus lens on my Canon SL1 before everything got covered with dew. Orion usually photographs well with a "nifty fifty" lens. Exposures were taken at 30 seconds, F4, ISO 400. I processed this image with DxO, Sequator, CS2, and Affinity Photo. And cropped to 5x7 format.

This is not my best image of Orion, but it was nice to do something while I am awaiting Clear Dark Skies again.

[3] The Elephants Trunk and IC1396 by Andy Nowlen

The 20 lightyears long Elephant Trunk Nebula can be found running through IC 1396, a young star cluster embedded within a cloud of glowing, ionized gas in the Cepheus constellation. It is composed of cool interstellar dust and gas, which blocks out light on its way to Earth and leaves behind a long, thin silhouette that gives the nebula its name (and makes it one of many nebulae that look like animals). (SkyatNight Magazine)

October 15-16, 2021
90 x 240 seconds
6 hours integration
Takahashi FSQ106n 530mm
Asi533mc pro
Ioptron CEM40EC
AsiAir Pro
Optolong L-extreme filter
Astropixel Processor
Pixinsight
Photoshop

New Moon: Nov. 4

Full Moon: Nov. 19

First Quarter: Nov. 11

Last Quarter: Nov 27

More info here

November 2021

Eugene, Oregon, USA

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Moonrise: 3:41am Twi A: 6:11am Sunrise: 7:49am Moonset: 4:51pm Sunset: 6:03pm Twi A: 7:41pm	2 Moonrise: 4:56am Twi A: 6:12am Sunrise: 7:50am Moonset: 5:14pm Sunset: 6:02pm Twi A: 7:40pm	3 Moonrise: 6:13am Twi A: 6:13am Sunrise: 7:51am Moonset: 5:39pm Sunset: 6:01pm Twi A: 7:39pm	4 ● Twi A: 6:15am Moonrise: 7:33am Sunrise: 7:53am New Moon: 2:16pm Sunset: 5:59pm Moonset: 6:07pm Twi A: 7:37pm	5 Twi A: 6:16am Sunrise: 7:54am Moonrise: 8:55am Sunset: 5:58pm Moonset: 6:40pm Twi A: 7:36pm	6 Twi A: 6:17am Sunrise: 7:55am Moonrise: 10:18am Sunset: 5:57pm Moonset: 7:22pm Twi A: 7:35pm
7 DST Ends Twi A: 5:18am Sunrise: 6:57am Moonrise: 10:37am Sunset: 4:55pm Twi A: 6:34pm Moonset: 7:14pm	8 Twi A: 5:19am Sunrise: 6:58am Moonrise: 11:45am Sunset: 4:54pm Twi A: 6:33pm Moonset: 8:17pm	9 Twi A: 5:20am Sunrise: 6:59am Moonrise: 12:41pm Sunset: 4:53pm Twi A: 6:32pm Moonset: 9:28pm	10 Twi A: 5:21am Sunrise: 7:01am Moonrise: 1:24pm Sunset: 4:52pm Twi A: 6:31pm Moonset: 10:42pm	11 ◐ First Qtr: 4:47am Twi A: 5:23am Sunrise: 7:02am Moonrise: 1:58pm Sunset: 4:51pm Twi A: 6:30pm Moonset: 11:55pm	12 Twi A: 5:24am Sunrise: 7:03am Moonrise: 2:25pm Sunset: 4:50pm Twi A: 6:29pm Moonset: none	13 Moonset: 1:05am Twi A: 5:25am Sunrise: 7:05am Moonrise: 2:48pm Sunset: 4:49pm Twi A: 6:28pm
14 Moonset: 2:13am Twi A: 5:26am Sunrise: 7:06am Moonrise: 3:08pm Sunset: 4:48pm Twi A: 6:28pm	15 Moonset: 3:18am Twi A: 5:27am Sunrise: 7:07am Moonrise: 3:28pm Sunset: 4:47pm Twi A: 6:27pm	16 Moonset: 4:22am Twi A: 5:28am Sunrise: 7:08am Moonrise: 3:47pm Sunset: 4:46pm Twi A: 6:26pm	17 Moonset: 5:26am Twi A: 5:29am Sunrise: 7:10am Moonrise: 4:08pm Sunset: 4:45pm Twi A: 6:25pm	18 Twi A: 5:30am Moonset: 6:30am Sunrise: 7:11am Moonrise: 4:32pm Sunset: 4:44pm Twi A: 6:25pm	19 ○ Full Moon: 12:59am Twi A: 5:32am Sunrise: 7:12am Moonset: 7:34am Sunset: 4:43pm Moonrise: 5:00pm Twi A: 6:24pm	20 Twi A: 5:33am Sunrise: 7:14am Moonset: 8:36am Sunset: 4:42pm Moonrise: 5:33pm Twi A: 6:23pm
21 Twi A: 5:34am Sunrise: 7:15am Moonset: 9:36am Sunset: 4:41pm Moonrise: 6:13pm Twi A: 6:23pm	22 Twi A: 5:35am Sunrise: 7:16am Moonset: 10:32am Sunset: 4:41pm Twi A: 6:22pm Moonrise: 7:01pm	23 Twi A: 5:36am Sunrise: 7:18am Moonset: 11:20am Sunset: 4:40pm Twi A: 6:22pm Moonrise: 7:57pm	24 Twi A: 5:37am Sunrise: 7:19am Moonset: 12:01pm Sunset: 4:39pm Twi A: 6:21pm Moonrise: 8:58pm	25 Twi A: 5:38am Sunrise: 7:20am Moonset: 12:35pm Sunset: 4:39pm Twi A: 6:21pm Moonrise: 10:03pm	26 Twi A: 5:39am Sunrise: 7:21am Moonset: 1:04pm Sunset: 4:38pm Twi A: 6:20pm Moonrise: 11:11pm	27 ◑ Last Qtr: 4:29am Twi A: 5:40am Sunrise: 7:22am Moonset: 1:29pm Sunset: 4:38pm Twi A: 6:20pm Moonrise: none
28 Moonrise: 12:21am Twi A: 5:41am Sunrise: 7:24am Moonset: 1:52pm Sunset: 4:37pm Twi A: 6:20pm	29 Moonrise: 1:32am Twi A: 5:42am Sunrise: 7:25am Moonset: 2:14pm Sunset: 4:37pm Twi A: 6:19pm	30 Moonrise: 2:45am Twi A: 5:43am Sunrise: 7:26am Moonset: 2:37pm Sunset: 4:36pm Twi A: 6:19pm				