

IO – February 2017

The Newsletter of the Eugene Astronomical Society

PO Box 7264
Springfield, OR 97475

Next Meeting: *Thursday, February 16*

Deep Among the Star Groups

(Summary by Jerry Oltion)

At our February 16th meeting, Larry Deckman will present "Deep Among the Star Groups," a slide show filled with beautiful images of the night sky and interesting speculation into the patterns and symmetries found therein. Larry has given talks to our club before, and they have without exception been interesting, thought provoking, and beautiful. About this one, Larry says, "With abundant illustrations and stunning photographs, we will explore the varied appearance of the Milky Way, Moon, and planets, along with an investigation of the major constellations in the sky. Be prepared for some new perspectives!"

This is a don't-miss presentation. The show starts at 7:00 on Thursday, February 16th at the Science Factory planetarium. Come a little early to visit and get a seat.

EAS

President

Diane Martin (541-554-8570)

Secretary

Jerry Oltion (541-343-4758)

Additional Board members

Jim Murray

John Loper

Andy Edelen

Annual Club Dues \$25

Meetings at 7:00 at the
Science Factory, Eugene



EAS is a proud member of the
Astronomical League

First Quarter Friday Report

Our First Quarter Friday for February 3rd was (surprise!) clouded out.

The remainder of our First Quarter Fridays for 2017 are:

March 3 (34% lit)	March 31 (21% lit)	May 5 (80% lit)	June 2 (66% lit)
June 30 (51% lit)	July 28 (35% lit)	September 1 (83% lit)	September 29 (69% lit)
October 27 (52% lit)	November 24 (34% lit)	December 29 (87% lit)	

March, June, and September have two FQFs each, while April and August have none; this is due to the timing of the Moon cycle.

Request from the Science Factory

Haley Sharp from the Science Factory is looking for interested individuals to help out on Saturday, May 13th with a public talk about August's upcoming solar eclipse. Anyone who wants to talk about their eclipse experiences (photography, observing, historical perspectives, etc.) should e-mail Haley at hsharp@sciencefactory.org. The more the merrier!



January Meeting Report

Our January meeting was given over to our annual swap meet and telescope workshop (which was canceled in December due to icy road conditions). Club members brought their retired or replaced gear to exchange or sell. Much of the gear available was given to EAS by the estate of Ted Touw, longtime EAS member. Several members of the local community also brought telescopes (new or old) in order to get advice on how to use them.





Previous: The swap tables were filled with everything from books to counterweights to items of unknown usage. Above: Bill Basham details the finer points of using a refractor. Below: Testing a small Schmidt-Cassegrain. *Photos by Diane Martin.*



Above: The crescent Moon and Saturn, January 28th. *Photo by Alan Gillespie.*

Below: Mars and Venus in conjunction, January 11th. *Photo by Bill Basham.*





The Brocken Spectre effect, seen from Spencer's Butte. The observer's shadow appears distorted by the Sun's light rays converging at the antisolar point; the "halo" is caused by diffraction rings around the antisolar point. *Photos by Bill Basham.*



Portrait of Orion. *Photo by Allan Gillespie.*

Sun & Moon rise and set for February

Date	Moon Rise	Moon Set	Twilight Begin	Sun Rise	Sun Set	Twilight End
2/1/2017	10:06	22:52	05:50	07:29	17:23	19:02
2/2/2017	10:39		05:49	07:28	17:25	19:03
2/3/2017	11:14	00:02	05:48	07:27	17:26	19:05
2/4/2017	11:52	01:11	05:47	07:26	17:27	19:06
2/5/2017	12:36	02:21	05:46	07:25	17:29	19:07
2/6/2017	13:25	03:28	05:45	07:23	17:30	19:08
2/7/2017	14:22	04:31	05:44	07:22	17:32	19:10
2/8/2017	15:24	05:28	05:43	07:21	17:33	19:11
2/9/2017	16:30	06:18	05:42	07:19	17:34	19:12
2/10/2017	17:37	07:01	05:41	07:18	17:36	19:13
2/11/2017	18:44	07:39	05:39	07:17	17:37	19:14
2/12/2017	19:49	08:12	05:38	07:15	17:38	19:16
2/13/2017	20:53	08:43	05:37	07:14	17:40	19:17
2/14/2017	21:54	09:12	05:36	07:12	17:41	19:18
2/15/2017	22:54	09:40	05:34	07:11	17:43	19:19
2/16/2017	23:53	10:09	05:33	07:10	17:44	19:21
2/17/2017		10:39	05:31	07:08	17:45	19:22
2/18/2017	00:50	11:13	05:30	07:06	17:47	19:23
2/19/2017	01:47	11:49	05:29	07:05	17:48	19:24
2/20/2017	02:41	12:30	05:27	07:03	17:49	19:26
2/21/2017	03:33	13:17	05:26	07:02	17:51	19:27
2/22/2017	04:22	14:09	05:24	07:00	17:52	19:28
2/23/2017	05:07	15:06	05:23	06:59	17:53	19:30
2/24/2017	05:48	16:08	05:21	06:57	17:55	19:31
2/25/2017	06:26	17:13	05:19	06:55	17:56	19:32
2/26/2017	07:02	18:21	05:18	06:54	17:57	19:33
2/27/2017	07:35	19:30	05:16	06:52	17:59	19:35
2/28/2017	08:08	20:41	05:15	06:50	18:00	19:36

All times are for Eugene, Oregon Latitude 44° 3' Longitude 123° 06'



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



Observing In February

All times Pacific Standard Time (November 6, 2016 - March 11, 2017 = UT -8 hours) or Pacific Daylight Time (March 12 - Nov. 4, 2017 = UT -7 hours)

1st Q

Full



Last Q



New



Feb 3, 8:19 PM	Feb 10, 4:33 PM	Feb 18, 11:33 AM	Feb 26, 6:58 AM
Mercury Rise: 6:31 AM	Mercury Rise 6:41 AM	Mercury Rise: 6:47 AM	Mercury lost in Sun
Venus Set: 9:24 PM	Venus Set: 9:25 PM	Venus Set: 9:20 PM	Venus Set: 9:05 PM
Mars Set: 9:44 PM	Mars Set: 9:43 PM	Mars Set: 9:43 PM	Mars Set: 9:42 PM
Jupiter Rise: 11:08 PM	Jupiter Rise: 10:41 PM	Jupiter Rise: 10:08 PM	Jupiter Rise: 9:34 PM
Saturn Rise: 4:23 AM	Saturn Rise: 3:58 AM	Saturn Rise: 3:30 AM	Saturn Rise: 3:00 AM
Uranus Set: 11:06 PM	Uranus Set: 10:40 PM	Uranus Set: 10:10 PM	Uranus Set: 9:40 PM
Neptune Set: 7:35 PM	Neptune Set: 7:09 PM	Neptune Set: 6:39 PM	Neptune lost in Sun
Pluto Rise: 5:59 AM	Pluto Rise: 5:32 AM	Pluto Rise: 5:02 AM	Pluto Rise: 4:31 AM

Items of Interest This Month

FEBRUARY

Jupiter begins rising at a civilized hour this month.

2/10 Penumbral eclipse of the Moon, unfortunately mostly over by moonrise.

2/11 Moon close to Regulus all day. Good chance to see a star by day.

2/16 Venus at greatest brilliance (mag -4.8). It's not much brighter than other nights, though; it never drops below -4.7 all month. It's 27% lit tonight.

2/18 Europa shadow transit from Jupiter rise (10:08) to 00:15 AM 2/19.

2/22 Io shadow transit from Jupiter rise (9:50) to 11:20 PM.

2/25-2/27 Mars and Uranus within 1°

2/25-2/26 Europa shadow transit 00:19 to 2:49 AM 2/26.

