



Peoria Astronomical Society, Inc.

P.O. Box 10111 Peoria, IL 61612-0111

Section of Peoria Academy of Science

Affiliate of the Astronomical League

www.astronomical.org

STARLITE

FALL, 2017

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Directors:

President: Dan Son, sonshine1992@gmail.com
Vice-President: Jesse Hoover, hooveje@gmail.com
Secretary: Phil Burroughs
Treasurer: Brian Hakes, bhakes02@comcast.net
Parliamentarian: Nick Johnson, johnsnl@comcast.net
Nominating Chairman: Tatiana Johnson, 2gsheps@gmail.com
Legal Agent: Dave Monroe, dave.monroe@comcast.net
Northmoor Chairman: Nick Johnson, johnsnl@comcast.net
Jubilee Chairman: Robert Pauer, sbpauer@winco.net

PEORIA ASTRONOMICAL SOCIETY IS NOW ON FACEBOOK:
www.facebook.com/PeoriaAstronomicalSociety

Editor's Notes:

Have a great fall season and clear sky viewing, thanks for all your work and contribution! I look forward to seeing you at the Annual Banquet and Election!

-Jesse Hoover

PLEASE NOTE:

Please notify Scott Swords at sswords3@comcast.net if you will be getting a new mailing address, email address and/or phone number. It is important that he has your personal information correct so you will continue to receive the Starlite and the Reflector. He would also like to receive any changes to your e-mail address as this is part of his database.

If you would like to join the Peoria Astro e-group or if you have changed your e-mail address, please notify Mike Frasca at mfrasca@att.net with your e-mail address (for in-club use only – not given out to other sources). He does not need your mailing address or phone number. If you are not a member of the e-group, you may want to consider joining. A great deal of club activity information is sent via the e-group. And by the way, it is free to join!!!

FUTURE EDITIONS OF THE STARLITE NEWSLETTER

New delivery method for the Starlite:

Starlites will be emailed to our Yahoo Email Group, and a copy will be posted online for download on our website.

Benefits from joining the email group include the electronic Starlite and also receiving up to date information for star parties and other important communications from the PAS.

New Members:

The Peoria Astronomical Society welcomes new members:

Kris Adams	Bartonville, IL
Corey Gorman	Peoria, IL
Ronald Pruse	Dunlap, IL
Tim & Katelyn Schachtrup	Peoria, IL
Kelly Fite	East Peoria, IL

President's Ramblings: Dan Son

Hello everyone, and I hope you had a chance to see a truly awesome solar eclipse this past month. My trip to Nebraska with fellow PAS member Brandt Bechtold was an adventure filled with good food, camping, historical sites and a rattlesnake in our viewing site. Never in my life would I have met so many wonderful people, learned and done some of my things with astronomy if it were not for Peoria Astronomical Society. I am truly blessed for seeking out this group and a friend named Scott Hay calling me to ask if I could be Secretary for the board. You will never know what adventures in life await unless you say yes to some things you never thought you would do.

I'm sure in upcoming Starlites we will read about some of our members adventures with this eclipse and see a few photos. Don't forget that October's members meeting will be about our members experience with this eclipse so please come and attend our October 2nd members meeting at the Peoria Riverfront Museum Planetarium.

Well, my time as President is coming to a close for this chapter. I have not done everything I wanted, but as a great group of Board members we did keep things moving along as smoothly as possible. I would encourage you to think about joining this PAS board. The board is getting older and we need young and fresh people with ideas and energy to keep PAS going strong in the future. I know that I as a Christian am asked to give three T's, time, talents and tithe. Time is maybe the hardest to give with our busy lives, but it does give back with new friends and adventures that await. I hope many of you reading this will join PAS at the annual banquet this September 23rd at the Lariat Steakhouse in Peoria. More information has been mailed and will be in this issue about this Banquet.

Nothing in life is certain, but if I can I will be seeing another Solar Eclipse in the future and a few more adventures in my life. Thank you everyone who served with me on the PAS board and I will be seeing you in October in a chair in the meeting room looking forward to making PAS an adventure for others.

Dan Son
President

2017 Meteor Shower Schedule: Scott Swords

Over the years I have used many meteor shower schedules. Below is by far the best one I have used.

<http://skytour.homestead.com/met2017.html>

Scott

September Monthly: Gary Bussman

Here are the dates for the ICC Star party schedule for September/October. Friday, Sept. 22 out at Jubilee Observatory. The rain dates are Oct 13/14/20/21. As usual we will need members helping out with their telescopes. Mark your calendar and help would be appreciated.

The Planets: Jupiter is starting to get low in the west after sunset. By the end of September, it will be getting too low to observe. Saturn is still in a good location to observe over the next month or so.

On September 18 in the morning hours, a thin crescent moon will be in the east 45 minutes before sunrise with Mars and Mercury just below the moon and Venus and Regulus just above. Would be a good visual.

The Constellations of the Fall

Pegasus, the Winged Horse is the 7th largest constellation in the sky. Visible in the sky from September thru December. The great square of Pegasus is very easy to spot coming up in the east. We know fall is around the corner when we start seeing this rise in the east.

Andromeda, the Princess of Joppa is the 19th largest constellation in the sky. This constellation is visible from September thru December. This constellation shares the star Alpheratz with its part of the great square of Pegasus. This constellation has the famous Andromeda Galaxy (M31) which is only 2.5 million light years from Earth.

Cassiopeia, the Queen of Joppa, is the 25th largest constellation in the sky. This constellation is visible from September thru December but since it is circumpolar, it is visible for most of the U.S. at least in part every night. The constellation forms a (W) in the sky and very easy to see. The Milky Way passes thru this constellation.

Cepheus, the King of Joppa, is the 27th largest constellation in the sky. It is visible easily from September thru December but this constellation circles the pole star and is up throughout the year. The Garnet star is located in this constellation and is a brilliant orange-red.

Perseus, the hero, is the 24th largest constellation in the sky. This constellation is visible from September thru January. It is also in the Milky Way and has the famous Variable star, Algol located in it. This constellation has also, in my opinion, the best double star cluster in the sky, NGC 869 and 884.

Cetus, the sea monster, is the 4th largest constellation in the sky. This constellation is visible from September thru October. It too also has a famous variable star, Mira, the first variable star recorded.

All of the above constellations are prominent in the fall skies but also each one of them are players in a famous story in Mythology. That story is for another time.....

I hope everyone had a chance to see the solar eclipse this past week. We went to Paducah, Kentucky to watch it and I can say it has to be one of the best visual events I have ever saw. No clouds and the best 2 minute and 30 seconds I ever watched in the sky. No picture does it justice than watching it live. Next one is April 8, 2024. Just around the corner and Indy my be my next stop for that one. We shall see.....

Hope we can get some help on the ICC star party. It is greatly appreciated!

Gary Bussman, Clear Sky's!!!!

Submission of photos / article content for the website: Jesse Hoover

If you have taken a nice photo that you would like to display on the PAS website, please send these to our webmaster Stan Pope stan@stanpope.net. Photos can be anything relating to astronomy. Maybe you snapped a good photo from a star party, club event, personal viewing, etc. Any astrophotography is encouraged! Also, if you have educational content, tips, techniques, lessons learned, or how-to articles with photos, we encourage that material also for the website. Please send these to Stan for addition to the website. Content is not limited to the website, and is encouraged in Facebook. If you have articles or pictures, we can also add them to www.facebook.com/PeoriaAstronomicalSociety
Note: Content posted on the website and Facebook will be made accessible to the general public.
Thanks!

The Caterpillar Matching Gifts Program: Brian Hakes

As of July 1, 2012 the Cat matching gifts program changed. Employees/Retirees are asked to submit matching gift forms electronically via the Caterpillar Foundation website, www.caterpillar.com/foundation.

The process is easy. Once you made your gift to the PAS you can go online to the Cat Foundation website and complete the electronic form, there is no paper involved. Once the form is registered with the foundation they will notify the PAS and the treasurer will then verify the gift has been received. Because there will be no mailings, the turnaround time for the whole process will be negligible. This is especially advantageous at the end of the calendar (tax) year. This is an excellent way to support the PAS. If you can, please participate in this generous program. This is a great way to help the society and the promotion of astronomy in the greater Peoria area.

Northmoor Observatory blog post: Renae Kerrigan

Hi Everyone,

Like last year, I wrote a blog post about Northmoor Observatory and how people can visit. It was very popular on our museum's Facebook page – it was viewed by 16,700 people so far, and liked 200 times! That is just since it was posted on Monday at 11 am.

You can read the post here: <http://starsoverpeoria.blogspot.com/2016/05/visit-northmoor-observatory-this-summer.html>

Hopefully it will help let more people know about PAS and the observatory.

NCRAL Newsletter:

The North-Central Region of the Astronomical League (NCRAL) is made up of member societies... the six states commonly thought of as the Upper Midwest of the USA, plus the Upper Peninsula of the state of Michigan. The PAS is a member of the NCRAL. Their Region Newsletter, also named "Northern Lights", has been resurrected and is better than ever! The **Summer 2017** issue is now available to read on their website can be found here:

<https://ncral.wordpress.com/newsletter-archive/>

As members of the NCRAL, we are allowed to submit our content to their newsletter as well. So if you have really cool articles appropriate for the viewing of the larger regional society audience mentioned above... please send these to Carl.

NCRAL Northern Lights Newsletter

Carl J. Wenning, Editor in Chief
NCRAL Regional Representative
Twin City Amateur Astronomers
Bloomington-Normal, Illinois
Email: carlwenning@gmail.com

Program Schedule for 2017 - 2018: Sheldon Schafer

**date confirmed and/or requested

*speaker confirmed, date tentative, TBD

- September 23, 2017 Annual Banquet and Election - 5:00PM at the Lariat Club (details below)
- October 4, 2017 The Great American Eclipse – a recap
 Members of the PAS
 Review of individuals' experiences, photos, etc.
- November 1, 2017** Astro Jeopardy
 Gene Hodel
- December 6, 2017 Your first telescope – what to buy today, & what's still useful years later?
 After a short presentation on telescope basics, PAS members will share their recommendations for a first telescope, if possible, bringing in the actual telescope, and explaining why they recommend it, and, very likely, how they still use it. This program will be targeted for people wanting to buy scopes for Christmas, and for members who have yet to get their first telescope. PAS members will share their expertise and stories.
 PAS Members
- January 3, 2018 Full Dome Show
- February 7, 2018** Meteorite Collecting
 Brian Poelker
- March 7, 2018* OSIRIS-REx Asteroid Sample Return Mission (via skype)
 Dante Lauretta
 NASA - OSIRIS-REx Principal Investigator
 Erin Morton, Communications Lead
 Office of the Principal Investigator
 OSIRIS-REx Asteroid Sample Return Mission
 Telephone: (520) 269-2493
- April 4, 2018* Arecibo (via skype)
 Mike Davis (son of Ed Davis, PAS member)
 Director of Arecibo (retired)
- May 3, 2018* The Science of Green Bank and Kitt Peak Observatories
 Renaë Kerrigan

Hazardous weather notice: Monitor email (e-group), local radio stations or PAS Facebook Page if a program may be canceled due to weather. If we determine a risk in the weather, the Society will cancel the event.

If we host an event and you feel the weather or road conditions are questionable, please take the safest actions and do not attend the event.

PAS Banquet 2017:

Please come and join us at our annual banquet September 23, 2017 at 5pm at the Lariat Steakhouse in Peoria. The address is 2232 West Glen Peoria, IL 61614.

2017 to 2018 SLATE OF OFFICERS:

The Slate of Officers picked are as follows:

President -
Vice-president - Jesse Hoover
Secretary - Phil Burroughs
Treasurer - Brian Hakes
Legal agent - Dave Monroe
Parliamentarian - Nick Johnson
Nominating - Tatiana Johnson

As we do not have a Presidential candidate we can accept nomination from the floor on the night of the banquet.

Our guest speaker for this event is Sheldon Schafer and he will be presenting a preview of the coming members meetings thru May of 2018.

I will need a count for the restaurant of number of people coming and if you can, what you would like. The 3 choices are (1) Rib Eye Steak, (2) Fettuccini Alfredo, (3) Salmon Filet. If you want a vegetarian meal, that can be ordered that night. Please email me at sonshine1992@gmail.com before September 11th. If you have any questions, you can email me or call me at 309-224-9150.

Dan Son

9/11 - Updates below:

Last call for PAS Banquet, I must give the Lariat Club a number of people coming, so please respond ASAP. I have 16 people coming as of now and I hope more will email me and set a date for a great dinner with fellow members. The Peoria Astronomical Society's annual Banquet will be September 23 at 5pm at the Lariat Steakhouse in Peoria. The address is 2232 West Glen Peoria, IL 61614. Sheldon Schafer will give a short program and we will hold the meeting after we eat. Please let me know how many people are coming and food choice so I can give a good count to the Steakhouse. The meeting is to vote on the Officers for the PAS board for the coming year. We will choose from the following 3 items for our dinner. IF you want a vegetarian meal, let me know and that will be provided. The 3 choices are (1) Rib Eye Steak, (2) Fettuccini Alfredo, (3) Salmon Filet. Social hour is from 5 to 6pm and then dinner followed by the meeting.

Dan Son

ICC star party for Fall 2017 Classes:

These are events where club members bring their scopes to Jubilee observatory for viewing session with students in Astronomy courses at Illinois Central College. Bradley OLLI students will also be invited at this time.

Here are the dates for the ICC Star party schedule for September/October. Friday, Sept. 22 out at Jubilee Observatory. The rain dates are Oct 13/14/20/21.

August 2017 Eclipse:



We had a fantastic time at the eclipse event in Carbondale, IL and I have heard a number of other good stories so far from other people on the trips they took to see it.

For now... I'm holding off on photos in Starlite. Our free and open to the public monthly meeting will be happening first Wednesday of October (4th) and this one is going to be great! Sheldon Schafer is giving a full presentation of summaries of everyone's eclipse experience with photos and video.

Please send all your eclipse digital media to Sheldon at this time. He will be very appreciative to have these for his presentation. Anytime before the October meeting is great.

Thanks to everyone who has sent me eclipse content so far, and I will save for compilation of a short "Eclipse" .pdf and email that out after the meeting.

Sincerely,
Jesse Hoover

Curiosity Updates

See below link to mission webpage: <https://mars.nasa.gov/msl/mission/mars-rover-curiosity-mission-updates/>



Courtesy NASA/JPL-Caltech.

July 14 martian sunset, and won't rise again for about three weeks! See you on the flip side, trusty rover!



Courtesy NASA/JPL-Caltech.

2017 Jubilee Maintenance Schedule

Work Day: To be announced

Bob Pauer Brian Bill Eric Clifton Larry Russell
Jesse Hoover Jon Crow
*Possible repair and grading of drive

April 1 Jesse Hoover Dave Grebner	April 8 Gary Bussman Brandt Bechtold	April 15 Jon Crow Scott Swords	April 22 Dan Son Gerry Horst
Apr 29 Brian Hakes Cliff Jeske	May 6 Nick Johnson Mark Richmond	May 13 Gary Bussman Larry Russell	May 20 Brian Bill Steve Russell
May 27 Eric Clifton Jon Crow	June 3 Rich Tennis Greg Neaveill	June 10 Nick Johnson Mark Richmond	June 17 Bob Pauer Brandt Bechtold
June 24 Scott Swords John Barra	July 1 Dan Son Gerry Horst	July 8 Brian Hakes Cliff Jeske	July 15 Gary Bussman Dave Grebner
July 22 Bob Pauer Larry Russell	July 29 Brian Bill Steve Russell	Aug 5 Eric Clifton Jesse Hoover	Aug 12 Nick Johnson Mark Richmond
Aug 19 Rich Tennis Greg Neaveill	Aug 26 Dan Son Brandt Bechtold	Sept 2 Scott Swords John Barra	Sept 9 Steve Russell Bob Pauer
Sept 16 Jesse Hoover Cliff Jeske	Sept 23 Brian Hakes Dave Grebner	Sept 30 Greg Neaveill Rich Tennis	Oct 7 Brian Bill Gerry Horst

Responsibilities: Check each building to insure security of equipment. Sweep floors, mow lawn and trim around buildings, blow or sweep off grass clippings from walkways. Mowing once a week will help prevent clumping and the need to sweep up clumps. Bring gas to top off mower tank. Currently there is no line trimmer at Jubilee. Since only two people are scheduled each week, it is **imperative** they insure that someone goes to Jubilee and perform scheduled tasks. Please notify me of any schedule conflicts or problems with the equipment.

Bob Pauer: 879-2438

2017 Northmoor Hosting Schedule

Updated: 2/15/2017

6-May	13-May	20-May	27-May
		Brandt Bechtold Brian Hakes Sheldon Schafer	Nick Johnson Elias Samaha Rich Tennis

3-Jun	10-Jun	17-Jun	24-Jun
Bill Cole Dave Grebner Sheldon Schafer	Jesse Hoover Jon Wrigley Steve Wrigley	Brian Austin Brandt Bechtold Bob Pauer	Brian Bill Rodney Nordstrom Dan Son

1-Jul	8-Jul	15-Jul	22-Jul	29-Jul
Phil Burroughs Bill Cole Tatiana Johnson	Brandt Bechtold Jon Crow Gerald Horst	Brian Austin Brian Hakes Bob Pauer	John Lyle Jon Wrigley Steve Wrigley	Bill Cole Nick Johnson Rich Tennis

5-Aug	12-Aug	19-Aug	26-Aug
Phil Burroughs Jesse Hoover Gerald Horst	Brian Bill Jon Crow Dan Son	Terry Beachler Dave Grebner John Lyle	Bill Cole Elias Samaha Sheldon Schafer

2-Sep	9-Sep	16-Sep	23-Sep	30-Sep
Brian Bill Nick Johnson Tatiana Johnson	Brian Hakes Bob Pauer Elias Samaha	Dave Grebner Jon Wrigley Steve Wrigley	Jon Crow John Lyle Dan Son	Terry Beachler Phil Burroughs Sheldon Schafer

7-Oct	14-Oct	21-Oct	28-Oct
Brian Austin Gerald Horst Rodney Nordstrom	Jesse Hoover Jon Wrigley Steve Wrigley		

Lead host in **Bold**

Location for Board Meetings on the third Wednesday of every month at 7:30 PM

Proctor Place, Third Floor Conference Room
2724 W Reservoir Blvd, Peoria, IL 61615

Board Meeting Minutes

June:

The minutes of the June meeting were deferred due to lack of quorum.

July:

Minutes called to order at 7:35 pm
Proctor Place Third Floor Conference Room
July 19, 2017

Attendees: Brian Hakes, Bill Cole, Nick Johnson, Phil Burroughs

Minutes: (Phil Burroughs) The minutes of the June meeting were deferred due to lack of quorum.

Treasurer's Report: (Brian Hakes) – . Receipts were \$ 588.00 and disbursements were \$ 2,075.60. Approval of the treasurer's report was deferred due to lack of quorum.

Jubilee: (Bob Pauer). Nick reported Bob Pauer had both knees replaced 3 weeks ago and is now mowing at Jubilee. The driveway is holding up well after heavy rains. The mower has been repaired. Nick and Eric picked up 14" scope from ICC. Some additional equipment will need to be purchased. The est value of the scope is \$ 7,000. They did not pick up the dome.

Northmoor: (Nick Johnson) - Nick reported so far this year there have been 591 visitors and approx. \$ 389 in donations. He also had a proposed Northmoor Observatory brochure. The locks have been changed. Nick is investigating the disappearance of one solar screen. Terry Beachler has reduced the leakage of the dome considerably and is continuing to work on it. Outside light photocell is bad and the light runs continuously. July 29 is "Observe the Moon Night" and scouts are coming July 24. Royal Publishing has not set a date for their star party.

Inventory: (Calene Fleming) – Brian says we need to get rid of some scopes.

Nominating: (Tatiana Johnson) – None

Legal Agent: (Dave Monroe) - None

Membership: (Eric Clifton & Scott Swords) – None

Starlite (Jesse Hoover) – None

Program: (Sheldon Schafer) – None

Peoria Academy of Science: (Bill Cole) – The Peoria Academy of Science Board does not meet during the summer months.

Light Control: (Jesse Hoover) - None.

Observing Report: (Gary Bussman) – None.

Website: (Stan Pope) – None

Old Business: Nick sent out a letter requesting volunteers to work with Bill Cole at Northmoor Observatory during the eclipse Aug. 21.

New Business: - None

Meeting adjourned at 8:35 pm

Minutes taken by Phil Burroughs

August:

Minutes called to order at 7:30 pm

Proctor Place Third Floor Conference Room

August 16, 2017

Attendees: Dan Son, Brian Hakes, Bill Cole, Nick Johnson, Phil Burroughs, Tatiana Johnson, Calene Fleming, Brian Bill, Jon Crow

Minutes: (Phil Burroughs) The minutes of the June and July meetings were accepted.

Treasurer's Report: (Brian Hakes) – The club has 1 new member for July. Receipts for July were \$ 261 and disbursements were \$ 131.83. Scott will give Brian the number of members for upcoming bill from Peoria Academy of Science. June and July Treasurer's Reports were accepted.

Jubilee: (Bob Pauer) The mower is working but using oil and will probably need to be replaced in the future. The dome motor and or track is having problems. Oil is leaking from the dome motor. Jubilee has no string trimmer.

Northmoor: (Nick Johnson) - Attendance on Saturday nights has been better this year than last year. Nick has fixed the autographed dobsonian. He will be buying a collimator for it for approx. \$ 20. He also has attached 2 aligning strips. Dan is donating a solar funnel to replace the missing funnel. Only Bill Cole has volunteered for eclipse day at Northmoor.

Inventory: (Nick Johnson and Bob Pauer) – None

Nominating: (Tatiana Johnson) – Tatiana has a slate of candidates except for president for the upcoming election. Scott will print mailing labels and Dan will mail a letter to members with the slate of candidates. This needs to be completed by Sept. 1.

Legal Agent: (Dave Monroe) - None

Membership: (Eric Clifton) – New members for June and July are: Corey Gorman, Tim and Katelynn Schachtrup, and Ronald Pruse

Starlite (Jesse Hoover) – The August Board Meeting is the deadline for Starlite articles.

Program: (Sheldon Schafer) – October meeting will be on members' eclipse experiences.

Peoria Academy of Science: (Bill Cole) – None

Light Control: (Jesse Hoover) - None.

Observing Report: (Gary Bussman) – None.

Website: (Stan Pope) – None

Old Business: Steve Russell needs to be contacted about selling Unitron scope.

New Business: - Calene made motion to make Bob Pauer an honorary member. Tatiana seconded and the motion passed. Nick made the motion to make Steve Wrigley an honorary member. Calene seconded it and the motion passed. These two proposed honorary members will be voted on by members at the Sept. membership meeting. Dave and Eric are working on a mount for the ICC scope in the 14" dome. Nick presented a Northmoor pamphlet which he will email out for suggestions.

Meeting adjourned at 9:00 pm

Minutes taken by Phil Burroughs