



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

SPRING, 2019

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- Board Meeting Information and Minutes
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- Jubilee Mowing /Maintenance Schedule (TBD)

Officers:

President: Dan Son, sonshine1992@gmail.com
Vice-President: Jesse Hoover, hooveje@gmail.com
Secretary: Phil Burroughs
Treasurer: Brian Hakes, bhakes02@comcast.net

Directors:

Acting Parliamentarian: Dave Monroe, dave.monroe@comcast.net
Nominating Chairman: Tatiana Johnson, 2gsheps@gmail.com
Legal Agent: Dave Monroe, dave.monroe@comcast.net
Northmoor Observatory Chairman: Open
Jubilee Observatory Chairman: Robert Pauer, sbpauer@winco.net

PEORIA ASTRONOMICAL SOCIETY IS NOW ON FACEBOOK:

www.facebook.com/PeoriaAstronomicalSociety

Editor's Notes:

Thanks for your dedicated support to the society!

-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:
Jim McKean – Pekin

2019 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/met2019.html>

Scott

<http://cometchasing.skyhound.com/>

Great web site that has finder charts for visible comets.

Dan

February / March Monthly: Gary Bussman

The planets.....

Mercury will be at a great position at the end of this month in the west after sunset. Shining at -1.1, look for this planet 30 minutes after sunset. It should be easy to spot over the next 3 weeks. Binoculars should help in locating this planet.

Mars is hanging in the west after sunset. Should be easy to find in the west.

Look for Zodiacal light after sunset in the west. This cone-shaped glow will be coming out of the western horizon and extending to the zenith along the ecliptic. Remember the planets are on the ecliptic, so look for Mars which happens to be on the ecliptic and this is the area where zodiacal light will appear. The best time to view this is from February 21 to March 7th. No moon to interfere.

And now let's talk about Star Party's 

The ICC star party's are scheduled for Friday, April 26/27 with the rain dates of May 3/4th at Jubilee observatory. Jeff Constable will keep us informed in the months to come. We always need members to bring out their scopes to help out with the big crowd. Always a fun night for everyone.

We will also go out to observe at Jubilee observatory on 3rd quarter and new moon weekends. We pick those weekends when we don't have a moon in the sky. We communicate thru the e-group to see if anyone is going out. We will also have another star party with the ICC group in the summer. That will be announced by Jeff.

Looking forward to another season to observe. Looking at all these objects in the night sky doesn't get old. It doesn't matter if you have a scope or not, just come on out to look through all the different telescopes and maybe you will find the scope you would like to get one day. Who knows, you may see the northern lights, meteors, satellites, and zodiacal lights. General observing is where everyone starts, then you will let your interest take you to the other areas of observing. I have been observing the night sky since I was in grade school, and as I said earlier.....it doesn't get old.....

Clear Sky's, Gary Bussman



Presidential Ramblings

When will winter be done? I am sure we all enjoy the 1st snowfall of the season but that was back in November and I am ready for some warmer nights and clear skies to do a little Messier hunting or checking a few off the Herschel 400. I have been busy getting Northmoor ready for the coming season in May and would like to thank all PAS keyholders and members who help out any Saturday, if it were not for your time and effort, it would not be possible to show the public what we love to do. It is still not too late to help out at Northmoor or at Jubilee. We always welcome everyone who wants to help maintain the sites and meet other members.

It was exciting to watch the launch of the Space X Crew Dragon capsule on a Falcon 9 rocket. On board are over 400 pounds of supplies to be delivered to the International Space Station and return some research samples. The only crew member is a lifelike test device named Ripley who has sensors to relay information on the effects of space travel on the body in the new capsule. Elon Musk is CEO of Space X and has been working with NASA on this since 2002.

-Dan Son

25 Years ago...

We're still trying to track one down =)

50 Years ago...

PHOTOGRAPHY CAN BE FUN -- Arthur Grebner

"A New Device"

The latest addition of equipment now available to all members of the Peoria Astronomical Society is a portable electric camera drive. First I wish to describe its construction; then its purpose; and finally the program proposed for its use.

Because many amateur astronomers find photography too complex and just forget it, I decided to overcome this complexity by building this drive. Satisfactory time exposures of any object requires a steady mount. When stars are your subject, an additional element of motion is involved. This motion of 15° per hour on the polar axis is easily compensated for by an accurate drive.

The base is made of $\frac{1}{4}$ "x6x8 steel plate. The polar axle housing is a 4"OD $\frac{1}{4}$ " wall x 12" length of steel tube welded to base at approximate 41° angle. A 1 $\frac{3}{4}$ " dia. x 11" axle is welded to another 4"OD tube at right angles and mounted on two large ball bearings inside of housing. At lower left hand end of housing a 3" Boston worm gear and wheel are attached to a 1/15 RPM synchronous motor. This motor can be operated from 12V battery and inverter if necessary. On top of this 4" tube is a standard camera tripod head to which most cameras can be attached. This assembly as described weighs 35 lbs. The drive also includes an adjustable clutch; no setting or adjustments are required while photographing. The camera can be pointed in any direction with a minimum of effort.

The purpose is to provide simple foolproof means of photographing constellations in black and white or color with any camera, including Polaroid, which have a time exposure feature on it. The exposure time will vary with the camera aperture and film speed. For example, exposing ASA 64 film at F2 for 1 minute will register beyond the 5th mag. stars; a 2 minute exposure will show the 6th mag. stars, more than most of us can see on a good night.

All members of our society are encouraged to use either their own or a borrowed camera with this new drive. On a moonless night, sometime this Spring, Summer or Fall at Grebner's observatory, come and try your luck.

As an incentive for this new constellation photo program, we will award a certificate of accomplishment to all who have taken 25 acceptable

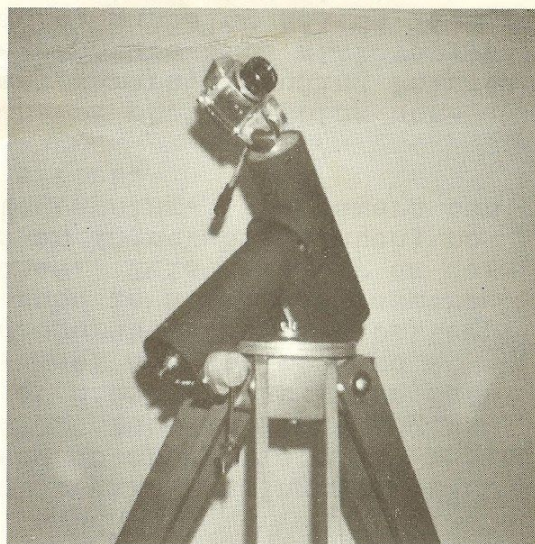
(Photography Can Be Fun, Cont'd.)

slides. The best of these slides will be shown at the annual dinner meeting and a winner will be chosen by the members present for first prize. Second prize will be picked from those who have 13 to 25 acceptable slides.

The advanced astronomy class will get a preview of regular and wide angle constellation slides at their April 23rd class. These slides will also be used as a guide to show location of many fascinating binocular and telescopic objects.

The wide angle slides will be taken by a new camera, now under construction, featuring a super slide of $55^\circ \times 55^\circ$ apparent angle. The lens is an F2 35MM FL.

When a standard lens of 50MM FL is used, the apparent angle of coverage is usually $25^\circ \times 35^\circ$. So you see that this wide angle super slide will cover three times the area and very easily take the largest constellations. Using a telephoto lens on your camera could be an advantage only on the smaller constellations or to pick up some brighter nebulosity with a longer time exposure; for example, the Orion nebula. However, some experimenting with fast film, Anscochrome 500, could be very interesting.



Lunar Eclipse Photo: Dr. James Dire



Date/Location	January 21, 2019 Dunlap, IL
Camera and Settings	Canon 30D
Telescope	Stellarvue SV-70T 70mm f/6 apo
Mount	Celestron AVX
Exposure	L-R: 1/125, 1/30, 1/15, 4, 1/5, 1/15, 1/30 s ISO 800
Processing	Photoshop CS5
Other	This series shows partial eclipses before (upper right) and after (lower left) the total eclipse image in the center. The time sequence goes from right to left as the Moon moved eastward through the umbra.

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.

Academy of Science Scholarships

The Peoria Academy of Science Memorial Scholarship Fund annually awards a scholarship to a student from the Tri-County Area who is a member of one of the Academy Sections or a physical science major at Bradley University, Eureka College, or Illinois Central College.

The Peoria Academy of Science Memorial Scholarship Fund was established in 1964 by Ervin and Martha Jackson as a living memorial for their son, Donald Jackson, an astronomy major at the University of Illinois, who died in an automobile accident that year. The Jacksons' contributions in memory of their son and other contributions in memory of other Academy of Science members are invested and the dividends are used for an annual scholarship award. Since inception in 1964, Memorial contributions have been made in memory of over thirty persons and the size of the award has grown from the first award of \$75 to the present award of \$1000.

Application forms are made available in mid-January of each year through the department heads at the three local Colleges and the chairs of the various Sections of the Peoria Academy of Science, and are to be submitted by the end of February. The applications are examined by a committee of five, and they decide which, if any, of the applicants is qualified to receive the award, based on the applicant's scholarship, Academy participation, school and civic activities, and character references. The amount of the award is set by the Board of the Academy of Science based on the income of the Memorial Scholarship Fund in the previous year.

Donations to honor any Academy member may be sent to Mr. Mark Wright, Treasurer, Peoria Academy of Science, P O Box 3412, Peoria IL 61612-3412, or to Richard L. Barthel, Secretary, PASC Memorial Scholarship Fund, 6501 N. Greenmont Rd., Peoria IL 61614. Since the Academy is a 501(c)(3) organization, any donations will be tax deductible for the donor to the fullest extent of the law. All donations received will be invested with the Peoria Academy of Science Memorial Scholarship Funds at the Community Foundation of Central Illinois, and only the income from the Fund will be used for scholarship awards.

Peoria Academy of Science Memorial Scholarship

Douglas K. Holmes, Scholarship Chairman

910 E Norwood Ave
Peoria, IL 61603-1306

Dhlms12@att.net

309.682-3938

February 8th, 2019

Dear Colleagues:

The Peoria Academy of Science again invites you to sponsor one or more outstanding students for our annual scholarship award. Graduating high school seniors who will major in science at college next fall, as well as undergraduate and postgraduate science majors are qualified candidates. Applicants should be students studying the natural sciences and attending local schools. Academy of Science members are encouraged to apply. The source of the award is from the investment earnings of the Peoria Academy of Science Memorial Scholarship Fund. The \$1000 award will be presented at our annual banquet on April 12, 2019, at Barracks Cater Inn, in Peoria, IL. Awardee and sponsor must be in attendance. To nominate a candidate, please return the enclosed form, with a copy of your current grades, to me at the address below. Please send so that it will arrive no later than March 20th, 2019

I sincerely hope you will respond to this invitation and submit the application for one or more candidates.

Sincerely,

Douglas K Holmes, Scholarship Chairman
Peoria Academy of Science Memorial Scholarship Fund

910 E Norwood Ave

Peoria, IL 61603-1306

APPLICATION FORM
PEORIA ACADEMY OF SCIENCE MEMORIAL SCHOLARSHIP

(Application due by March 20th, 2019)

Nominee:

Sponsor:

Signature: _____

Printed Name: _____

Name: _____

Home Address: _____

Address: _____

Phone: _____

Email: _____

(circle preferred address: home or campus?)

Phone: _____

Email: _____

School: High School _____

(Please attach a letter of recommendation.)

College _____

(High school seniors list both the high school currently attended and the

college to be attended in the fall.)

Character Reference:

Campus Address: _____

Name: _____

Address: _____

Phone: _____

Phone: _____

Email: _____

Email: _____

Major: _____

(Attach a letter of recommendation.)

Grade Point Average: _____

(Attach transcript.)

Extra Curricular Activities (College): _____

Volunteer Work: _____

Career Goals: _____

Peoria Academy of Science Membership: Yes: _____ Section: _____

Please return your completed application, letters of recommendation from your sponsor and character reference, and a copy of your latest high school or college transcript by mail. All materials must be received no later than March 20th.

Douglas K. Holmes

Peoria Academy of Science
910 E. Norwood Ave
Peoria, IL 61603
Dhlms12@att.net

This application form may be photocopied for distribution to potential applicants. A printout of a word processing document containing the same information requested on the application form will be acceptable.

Privacy: Copies of the Application and attachments will be distributed to the Peoria Academy of Science Scholarship Committee for evaluation. The winner's application will be forwarded to the Community Foundation of Central Illinois who will maintain the application on file and may release the identity of the winner to the public. All results are final and all applicants' information will then be destroyed. If selected, you will be notified two weeks prior to the banquet. If not selected this year we ask that you reapply!

If you are selected the Academy, ask that you give us an update on where and what your plans are in the future.

Any questions about an application should be submitted to Mr. Holmes at 309-682-3938 by March 10th.

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://staroverpeoria.blogspot.com/2016/05/visit-northmoor-observatory-this-summer.html>

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

Reflector :

March 2019 Reflector Magazine digital edition is available for download

You may access an archive of digital issues from the AL website by visiting:

<https://www.astroleague.org/reflector>

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 latest **Winter 2019** 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

Add Your Email Address to NCRAL Member Database

Add your email address to the NCRAL member database now so that you can get direct mailings of NORTHERN LIGHTS and important and timely announcements about Regional conferences, star parties, and so forth. Your email address will never be shared with or sold to outside entities. Sign-up takes only about a minute. You'll need to provide your name, email address, astronomy club affiliation (including at-large), and indicate if you hold particular positions within your club. Go to the following case-sensitive URL to add your information to our database: <https://goo.gl/gS585F>

NCRAL 2019:

NCRAL 2019 ~ May 3-5 ~ Moline, Illinois

The Popular Astronomy Club is the host for NCRAL scheduled for May 3-5 in Moline, Illinois. Our committee has planned an affordable and interesting event. Registration is now open with early booking discounts through **March 15**. We hope you can share this information with your club members. Hope to see you in Moline! Clear Skies, PAC
<https://ncral2019.org/>

Texas Star Party 2019:

TEXAS STAR PARTY, April 28 – May 5, 2019! near Ft Davis, Texas

<https://texasstarparty.org/get-started/>

Nebraska Star Party 2019:

NEBRASKA STAR PARTY, July 28th - August 2nd, 2019 @ Merritt Reservoir State Recreation Area, Valentine, NE!

<https://www.nebraskastarparty.org/>

ALCon 2019:

To Astronomical League Chairs and Representatives...

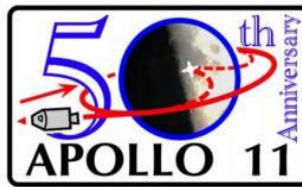
Next year, ALCon will be held at the Kennedy Space Center followed by a three-day cruise to the Bahamas.

Please pass this announcement to your constituents.

Thanks,

John Jardine Goss
Astronomical League President
www.astroleague.org

Your **ASTRONOMICAL LEAGUE**



*Join the Astronomical League to commemorate
the 50th anniversary of the first moon landing!*

ALCon 2019
Kennedy Space Center and
Southern Skies Cruise to the Bahamas
July 25 - 29, 2019

First, tour the **Kennedy Space Center**, the site of the Apollo 11 launch. Then, enjoy a **three-day cruise to the Bahamas** on a ship by Royal Caribbean and see the southern Milky Way of Sagittarius and Scorpius!

- Thursday July 25, after the KSC tour, stay on-shore at a hotel in Port Canaveral (to be arranged).
- You will need a passport valid through January 2020 or later. (Yes, at least six months after the cruise!)
- Royal Caribbean cruise ship leaves Port Canaveral Friday afternoon July 26 and returns Monday morning July 29.
- Cruise cabins are limited. Reservations are being accepted, with a \$100 initial down payment. Pricing (based on double occupancy) for the whole weekend cruise including meals is set at \$399 per person (PP) for inside cabins, \$579 PP for outside cabins, and \$589 PP for Balcony cabins. Singles, triples, and quad rates are available upon request with our agent.
- Members of the Astronomical League only: **To reserve your cabin with a \$100 deposit, and for additional cruise details, please contact Marsha at Lin-Mar Travel, 631-736-1049 or marsha@travelwithlin-mar.com.**

More details available shortly.

ICC Star Party Spring 2019 Dates (@ Jubilee Observatory):

- Fri, April 26th (primary date)
- Sat, April 27th (rain date 1)
- Fri, May 3rd (rain date 2)
- Sat, May 4th (rain date 3)

Northmoor Hosts for Public Viewing

Northmoor Observatory will again hold observing nights for the public starting on May 18th. These sessions take place every Saturday night from sunset till around 11pm. We have keyholders open and run the scope and use PAS members to serve as hosts to the public for these events. It is not uncommon to have more than 100 people visit on a clear night.

We currently have a few nights open for PAS members to help out as host's and are always looking for PAS members who want to become keyholders and run the scope. It is not hard to run this scope and with proper training anyone with a desire can do it. You do not need to know how to run the Northmoor telescope to volunteer. **If you are interested in becoming a host or keyholder please contact Dan Son @ sonshine1992@gmail.com.** This is a great way to learn about Northmoor operations and to contribute to PAS relationship with our community.

Northmoor Observatory Involvement/ ** Cleanup Date **:

Included in this Starlite is the Northmoor Schedule. Please look it over if you help out at Northmoor, and check your dates for working. If any any want to pick up an open date, and there are a few... let me know, and I will put your name down. If you want to help out or even become a keyholder, let me know. We need you and welcome your support. The scope is a great historical item and a great working telescope, being a keyholder gives you the opportunity to use the scope when you want to. We will have an open house / cleaning party on **April 20th at 9am** to do general cleanup and give any member a chance to see it during the day or let me know you want to be a helper or keyholder. Thanks for your help and support.

Dan Son

Peoria Astronomical Society

Final Program Schedule 2018– 2019 (version 7)

October 3, 2018 Nathalie Haurberg, PhD, Professor of astronomy, Knox College.

How the Smallest Galaxies Help Answer the Biggest Questions

Her general interest is in studying the formation and evolution of galaxies beyond the Milky Way Galaxy, specifically focused on dwarf galaxies which are the lowest-mass galaxies in the local Universe. These galaxies provide a unique window into understanding the earliest galaxies in the Universe as well as providing crucial insight into how galaxies have evolved over time. Her most recent work has been with the SHIELD project which is a multi-wavelength study of very intriguing subset of lowest-mass star-forming galaxies. Her primary focus is on determining the chemical abundances of star-forming regions in these galaxies through the use of long-slit spectroscopy and using that to aid in our understanding of their star-formation histories.

Years at Knox: 2013 to present

Ph.D., Astronomy and Physics, 2013, Indiana University.

M.A., Astronomy, 2008, Indiana University.

B.A., Physics, cum laude, 2006, Knox College.

Teaching Interests: Astronomy, The Search for Extraterrestrial Life, Introductory Physics, Optics, Observational Astronomy, Stellar and Extragalactic Astrophysics

November 7, 2018 James Dire PhD. – <http://astrojim.net/>

In Search of the Perfect Telescope for Astronomical Imaging

At the 2018 Illinois Dark Skies Star Party, Dr. Dire started a two part series titled “In Search of the Perfect Telescope”. The first part covered amateur telescopes for visual use. On November 7, he will present part 2 on the use of amateur telescopes for astrophotography. Dr. Dire will discuss telescope designs and how they are used for producing the best astronomical images. He will show many of the images he captured using various optical configurations.

December 5, 2018

Smartphone Astrophotography

(instructional videos from YouTube – we invite members’ input as to which to show. Go to YouTube and search for “Smartphone Astrophotography” to see the many suggestions)

January 2, 2019 Full Dome Show – Solar Superstorms

February 6, 2019 Dr. Walter Kiefer, Lunar & Planetary Institute Senior Staff Scientist

Mars: The Inside Story What we know about the interior of Mars and how the InSight mission will contribute to that knowledge.

March 6, 2019 Andrew Dombard, University of Illinois - Chicago

“Were the Moon Landings a Hoax? (Short Answer: No)”

Disputing the “evidence” that shows the Moon landings were faked (timely for the 50th anniversary of Apollo 11).

Andrew Dombard is an Associate Professor in the Dept of Earth & Environmental Sciences at the University of Illinois at Chicago and the Planets Editor for the journal Geophysical Research Letters. Prof. Dombard’s research focus on the geophysics of planetary bodies, specifically how the near surfaces respond to various forces and how that response can tell us about the evolution of the worlds in our Solar System.

April 3, 2019 Craig A Whitford

Michigan’s Extraterrestrial Visitors: The Hamburg Michigan Meteorite

Originally recorded at the Abrams Planetarium, East Lansing, Michigan

The program describes the process of reporting and discovery of the fragments of the meteorite fall over Michigan on January 16, 2018. If we’re ever so lucky as to have a major fall as this over central Illinois, it will prepare us for the process of discovery, reporting our observations of the fireball and using the resulting data to find fragments.

May 1, 2019 Sheldon Schafer – ***Chasing the 2019, 2020, & 2024 Total Eclipses***

Hazardous weather notice: Monitor email (e-group), local radio stations or PAS Facebook Page if a program, viewing, or star party 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.

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

Peoria Astronomical Society December 2018 Minutes

Meeting called to order at 7:40 pm, Proctor Place third floor conference room, December 19, 2018

Attendees: Jesse Hoover, Dan Son, Dave Monroe, Bill Cole, Phil Burroughs, Brian Hakes

Minutes: (Phil Burroughs) The minutes of the October board meeting were approved as corrected. There was no board meeting in November.

Treasurer's Report: (Brian Hakes) – Receipts for October and November 2018 were \$ 409.19 and disbursements were \$ 736.91. Checking balance at the end of November was \$ 4,459.31. The savings account balance at the end of November was 13,574.91. The Treasurer's Report was approved.

Jubilee: (Bob Pauer) – Dr. James Dire wants to put an observatory pod on the concrete pad at Jubilee. The PAS Board did not like the spot he had chosen because it is a premium spot for star parties. The Board recommended a spot close to the center of the concrete pad or on the grass. Dan Son will contact Dr. Dire with this information. The ICC scope still needs a mounting plate. Eric Clifton has a design for the mounting plate. Either Eric or someone else needs to contact machine shops and get this plate made.

Northmoor - Terry Beachler will handle maintenance at Northmoor and Dan Son will take care of paperwork such as scheduling.

Inventory (Bob Pauer) – None

Nominating: (Tatiana Johnson) – None

Legal Agent: (Dave Monroe) – None

Membership/Alcor: (Eric Clifton/Scott Swords) – None

Starlite (Jesse Hoover) – Next deadline for Starlite is February 2019.

Program: (Sheldon Schafer). – Sheldon has programs scheduled. Possibly eliminating the January Members Meeting in 2020 was discussed. It was decided to further discuss this in the future.

Peoria Academy of Science: (Bill Cole) – Bill said next meeting is December 20. Dan Son will come up with questions for next year's Science Treasure Hunt.

Light Control: (Jesse Hoover) – None.

Observing Report: (Gary Bussman) – None

Website: (Stan Pope) – Dan Son plans to update the website with relevant Peoria astronomical data several times a year.

Old Business: - None

New Business: - Chris Dittmeier has donated an 8" SCT to the club. Camp Tapawingo has requested someone to explain the night sky to them on either Jan. 4 or Jan. 5. Jesse volunteered to do this.

Meeting adjourned at 8:45 pm.

Minutes taken by Phil Burroughs, PAS Secretary

Peoria Astronomical Society January 2019 Minutes

There was no board meeting in January due to weather.

2019 Northmoor Observing Schedule

May 18 th	Sheldon Schafer Jon Crow Blake Nebergall	May 25 th	Terry Beachler John Lyle Rodney Nordstrom
June 1 st	Brian Hakes Brandt Bechtold Brian Austin	June 8 th	Phil Burroughs Elias Samaha Brian Bill
June 15 th	Gerald Horst Jesse Hoover John Lyle	June 22 nd	Bob Pauer Tatiana Johnson Larry Reeves
June 29 ^{ht}	Steve Wrigley Josh Wrigley Jon Wrigley	July 6 th	Bill Cole Brian Bill Jesse Hoover
July 13 th	Dan Son Brian Austin Tatiana Johnson	July 20 th	Dan Son Rodney Nordstrom Gerald Horst
July 27 th	Brian Hakes Blake Nebergall Elias Samah	Aug 3 rd	Jon Wrigley Josh Wrigley Steve Wrigley
Aug 10 th	Terry Beachler Blake Nebergall Dave Grebner	Aug 17 th	Phil Burroughs Jon Crow Larry Reeves
Aug 24 th	Gerald Horst John Lyle Sheldon Schafer	Aug 31 st	Bob Pauer Brandt Bechtold OPEN
Sep 7 th	Bill Cole Elias Samaha Gerald Horst	Sep 14 th	Sheldon Schafer Jesse Hoover Brian Austin
Sep 21 st	Phil Burroughs Tatiana Johnson Jon Crow	Sep 28 th	Terry Beachler Brian Bill Dave Grebner
Oct 5 th	Dan Son Brian Austin Brandt Bechtold	Oct 12 th	Brian Hakes Rodney Nordstrom Larry Reeves
Oct 19 th	Josh Wrigley Steve Wrigley Jon Wrigley	Host is 1 st name for the scheduled date. If you cannot be present, it is your responsibility to obtain a substitute and notify the host.	

2019 Jubilee Maintenance Schedule

<TBD>