



**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](http://www.astronomical.org)

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# *STARLITE*

*WINTER, 2018*

## ***WHAT'S IN THIS ISSUE?***

- List of Board of Officers and Directors
- Editor's Notes
- Address/email changes
- Future Editions of the Starlite
- New Members
- 2018 Meteor Shower Schedule plus Comets
- Monthly's (December)
- ICC star party photos!
- Astrophotography winners of the year
- Presidential ramblings
- From starlites past
- Photos/Articles for Website
- Caterpillar Matching Gifts
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- NCRAL Newsletter (how to sign up)
- Texas Star Party 2019
- ALCon 2019 registration form
- Programs for 2018/2019
- Dues notice
- Board Meeting Information and Minutes

## ***Officers:***

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

## ***Directors:***

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

## ***PEORIA ASTRONOMICAL SOCIETY IS NOW ON FACEBOOK:***

[www.facebook.com/PeoriaAstronomicalSociety](http://www.facebook.com/PeoriaAstronomicalSociety)

## **Editor's Notes:**

*Merry Christmas!*  
*-Jesse Hoover*

## **PLEASE NOTE:**

Please notify Scott Swords at [sswords3@comcast.net](mailto: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](mailto: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:

Tommy Davis - Princeville  
Dr James Dire – Dunlap  
Dennis Hamon – Peoria  
Blake Nebergall – Trivoli  
Daniel Powell from Peoria

**2018 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/met2018.html>

Scott

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

Great web site that has finder charts for visible comets.

Dan

**December Monthly: Gary Bussman**

On December 6th, Mars and Neptune will be very close to each other on the nights of December 6th and 7th. On the 6th, Neptune will be to the upper left of Mars. The next night, they will still be close together with Neptune on the right side of Mars. You will have 2 nights to view this event that won't happen again until the year 2210. Will need a good pair of binoculars. Hope for clear sky's one of those nights.

The Geminids meteor shower will peak on the night of December 13th/14th. The moon will set by 11pm so it will not interfere with this shower. This is one of the 3 top showers of the year. This constellation will pass overhead and it will give you the best chance to see as many as 120 meteors per hour. Clear sky's are a must. Keep your fingers crossed.

On the morning of December 3rd, a crescent moon will be right above Venus with Spica to its right and Arcturus to the upper left. Should look good under clear skies.

On the morning of December 15th, Jupiter will be just above the eastern horizon with Mercury just above Jupiter shining at -0.5 and Jupiter shining at -1.8. Venus will be above both of these planets. Need to have a clear horizon line to see this since Jupiter is so low in the east.

Wishing everyone a Merry Christmas! Gary Bussman

***2018-09-14 Astronomy ICC Star Party: Charity Monroe***

<https://www.flickr.com/photos/13865847@N08/sets/72157673602440188>

***2018 Astrophotography Winners:***

<https://www.rmg.co.uk/whats-on/astronomy-photographer-year/galleries/2018/overall-winners>



### *Presidential Ramblings*

Well Winter has arrived and the sky's are colder and more times than not...cloudy. Hoping everyone has a great Christmas season and a Happy New Year. I was looking at old Starlite articles and notice that in 1993 we raised our dues from \$25 to \$30. We still only ask as for \$30 and it's a great deal when you look at all you get. We are members of The Astronomical League and get the Reflector, members of Academy of Science, Have use of both Northmoor and Jubilee Observing sites with use of the scopes when trained to use them and get the Starlite. We also have a few telescopes for members to borrow and use. Thats a great deal for \$30, so please in this issue you will see a renewal form for 2019, please take the time and fill it out and send it in with the \$30 or more dollars. It can be mailed or brought to the members meeting on Dec 5<sup>th</sup> at the Riverfront Planetarium.

We had an awesome meeting in November with James Dire PhD on The Search of the Perfect Telescope for Astronomical Imaging and it was very good. Sheldon has another great December meeting on Cell Phone Astrophotography. If you re not coming to the meetings you are missing some great people and conversation.

Here are a list of voted in Board members: President - Dan Son, Vice-President - Jesse Hoover, Treasurer – Brian Hakes, Secretary – Phil Burroughs, Parliamentarian/Legal Agent – Dave Monroe, Nominating – Tatiana Johnson. We have the position of Northmoor Chairmen open.. Terry Beachler is going to maintain the site and make it operation and I will be getting keyholders schedule and making scheduling for special groups. A big Thank You to Terry Beachler for his hard work in keeping the Dome up and running and fixing all the little repairs we find throughout the season. This spring I will be asking if any members would like to be trained in operation the scope and I will ask now... would anyone want to **Volunteer** to help with a few Saturday nights during the Summer, you wont run the scope but will help those who do.

If you are wondering about the photo of me on my last vacation...that is Messier 78 and Nasa helped me get their...hehehe. Find me at the Members or Board meeting to ask me how I did it.

# COMET SHOEMAKER-LEVY

Even Steven Spielberg couldn't have imagined a more spectacular show...a two kilometer comet slamming into a planet at several kilometers per second, causing widespread damage and destruction. Fortunately the planet in question is Jupiter and not Earth. Needless to say, the astronomical community is very interested in this "natural experiment." The outcome has many practical applications for us here on Earth.

Several weeks after discovery, it became apparent that Comet Shoemaker-Levy would impact Jupiter on July 21, 1994. Scientists immediately did what they do best...they called a conference. Despite only two weeks notice, 120 of the top planetologists showed up for a lively brainstorming session. Here is a summary of the main speakers:

Carolyn Shoemaker (*Mount Palomar Observatory*) described the comet's discovery by her husband Gene, David Levy and herself. They immediately knew something was strange about the "squashed comet." Jim Scotti (*Kitt Peak*) confirmed their discovery with the 91 cm Spacewatch telescope which first revealed the "string of pearls" appearance of the multiple nuclei. An orbit computed by Brian Marsden showed that the comet had passed close enough to

Jupiter on July 8, 1992 to tear the nucleus apart. An orbital model yielded a diameter of 2 km for the progenitor comet.

Hal Weaver reported that the Hubble Space Telescope was unable to resolve the individual nuclei, placing an upper limit on its size of 5 km. Most of the brightness of the coma was due to light reflected off dust. No emission spectra were detected.

Torrance Johnson reported on observational opportunities from spacecraft. Since the impact site will be on the hidden side of Jupiter, this will be the only way to watch it directly. *Galileo* is too far from Jupiter to obtain good images of the impact. Jupiter will be 60 pixels across and the impact only 1 pixel. It will only be able to record integrated infrared light, visible light and radio emissions of the event. *Voyager 2* will be looking directly down at the impact site but a two pixel Jupiter would limit useful information.

Kevin Zahnle predicted that the object will break up as it enters Jupiter's atmosphere. The increase in drag will suddenly slow it down. As a result, most of the energy will be deposited in a relatively narrow altitude range about 200 km below the cloud decks. The resultant fireball would not be visible until about one minute later, after rising above the clouds.

Several scientists described their own computer models. The supercomputers are still crunching the numbers; the contest is to see whose model comes the closest to reality on July 21, 1994.

Andy Ingersoll organized a workshop on the long term atmospheric effects. Speculation ran from predicting long-term changes in Jupiter's albedo from the comet's fine dust to considering the possibility that a new Great Red Spot will be produced.

Alex Dressler suggested that dust in the magnetosphere will allow us to directly image the magnetic field lines. An extremely wide field of view would be required. Finally, all the participants discussed the type of observations that should be made. The general consensus was to make all possible observations at all possible wavelengths with the highest possible resolution. NASA made \$750,000 available for observation projects.

On July 21, 1994, there will be more glass turned toward Jupiter than ever before in history. The Peoria Astronomical Society will have an organized event for the impact. Watch for details in the next *Starlite*.

*(Information obtained from a post on Internet by William Sears, Lunar and Planetary Lab, University of Arizona)*

## DGJ/JUBILEE OBSERVATORY NEWS

First, I would like to thank all of the PAS members and Jubilee committee managers who organized and helped with maintenance and construction projects during 1993. We made a significant dent in the project list and I expect to finish all the major projects on that list next year. Second, since it was my first year as the Jubilee Director, I made a few mistakes. Thanks to all of you who steered me back on the right path.

Activity was bustling at Jubilee during the last three months, with over 50 visits by PAS members and guests. The PEP group was able to use the 24" telescope on 33 nights. Several Work and Star Parties were held during the many clear days and nights.

### Star Parties

Chuck Lamb hosted a group of 14 Scouts from Troop 84 on September 10.

Don Hill hosted his Peoria Park District Astronomy class on October 22.

The Peoria Christian School's second

party this year was held on November 9. Several PAS members, (Chuck Lamb, Jerry Gunn, Scott Swords, Karl Haisch, Mike Frasca, Dave Teeter, Barry Redenbo) either brought their scopes or helped with the large crowd of sixty 6th graders and their parents.

The International Amateur/Professional Photoelectric Photometry Symposium (IAPPP) participants visited DGJ/Jubilee to see our 24" scope and computer controlled photometry equipment on November 12-13 even though it was raining on both nights.

Chuck Lamb and I polar aligned the 24" scope using the iterated star drift method. This method appears to have worked very well.

The Jubilee Operating Committee will be composed as follows for the 1994 year:

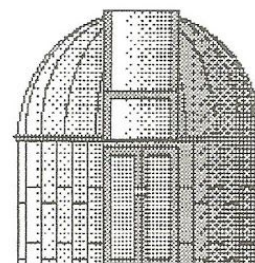
- Chairman ..... Jerry Gunn
- Building Manager ..... Scott Swords
- 24 inch telescope Manager ..... Barry Redenbo

### 14 inch telescope

- Manager ..... Karl Haisch
- Dome Manager ..... Chuck Lamb
- Mower Manager ..... Jim Blumenstock
- Mowing Schedule Manager ..... Jerry Gunn

Each committee member has a written job description detailing the responsibilities of the position. If you have questions, notice equipment problems, or just want to talk, feel free to call me or any of the DGJ/Jubilee managers.

Jerry Gunn  
Director, Jubilee Observatory



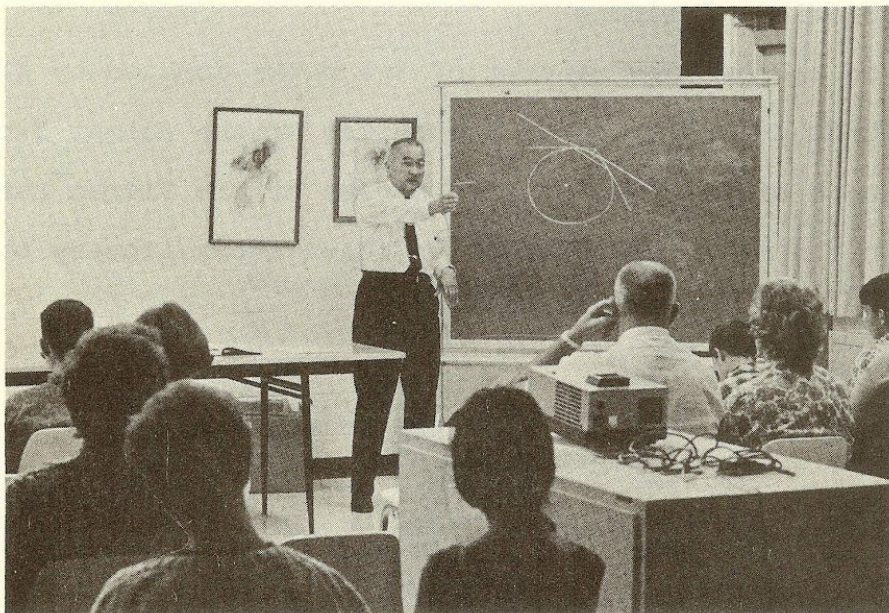
ASTRONOMY CLASSES

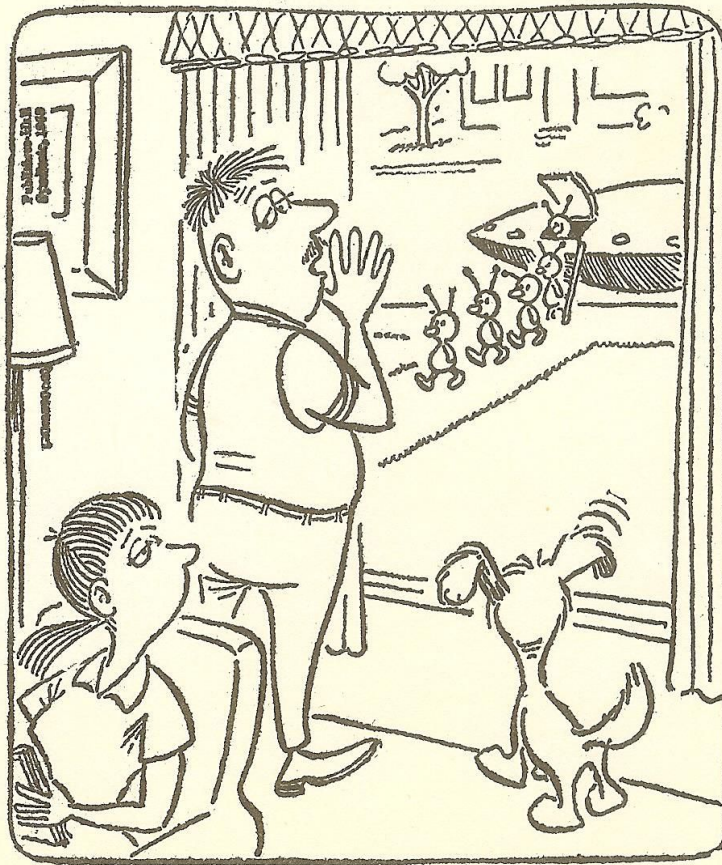
The picture below shows our beginner's class (Astronomy I) in its first session, at Lakeview Center, of the year with Van Zandt at the front giving forth as full time instructor. Note that we have switched times from that given on the calendar of events where Astronomy I is now on the first and third Tuesdays of the month and Astronomy II is on the second and fourth Wednesdays. The turnout for Astronomy I was 19 people - we still hope to get a few more - and Astronomy II is 18.

You may recall that the advanced class (Astronomy II) will have participants individually working out exercises from the Manual of Astronomy by Shaw and Boothroyd which I reviewed for you in the August issue of Star Lite. George Triff started off with the first of two sessions on the Constellations. Assignments for the fall and spring series is given below. Note that various of our members serve as instructors. Each one will start out with an explanation assignment of a certain exercise and follow up at a later meeting to look over your work and answer questions. In many cases all the material needed is in the Manual and in most of the others requiring outside work, a lapse of several months is provided before the next session on that subject to give you time to make the observations.

I'm sure those in the class are going to find it a lot of fun. It's not too late for others to join. Those who complete at least four exercises will be given awards at our next annual fall dinner meeting, with extra-special recognition to those who do all of those assigned. You learn a lot more by actually participating than just listening to lectures.

Note that the last meeting will include a social hour with coffee and donuts.





"Jiggers. Drop-ins."

***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](mailto: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](http://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](http://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.

### **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 latest **Summer 2018** 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](mailto: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/gS8SF>

### **Texas Star Party 2019:**

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

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

Really the only reason I am including this is because I worked near San Antonio one time and visited the club for a star party, and they now keep me up to date. I know some of you travel to Texas, and if you want to go, you now have the information. -Jesse

### **ALCon 2019:**

To Astronomical League Chairs and Representatives...

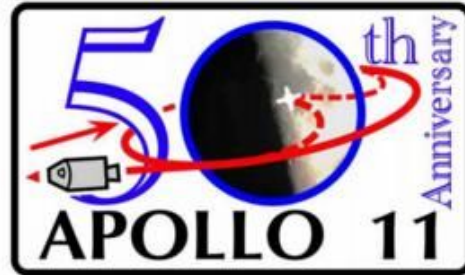
Next year, ALCon will be held at the Kennedy Space Center followed by a three-day cruise to the Bahamas.

Please pass this announcement to your constituents.

Thanks,

John Jardine Goss  
Astronomical League President  
[www.astroleague.org](http://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](mailto:marsha@travelwithlin-mar.com).**

More details available shortly.

## Peoria Astronomical Society

### Final Program Schedule 2018- 2019 (6<sup>th</sup> draft )

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                      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.

April 3, 2019                      All member show (we invite members’ input)

***The best astronomical shorts found on You Tube and other video resource sites on the internet***

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.



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# 2019 DUES NOTIFICATION

Your support of the **Peoria Astronomical Society** has been greatly appreciated!! Please select the membership of your choice for your 2019 dues.

- Regular Membership - \$30.00
- Patron Membership - \$50.00 or greater \*\* \*\*\*  
(Regular Membership status and the sincere gratitude of the Society)

AS ALWAYS MEMBERSHIP ENTITLES YOUR ENTIRE FAMILY TO THE PRIVILEGES OF  
THE SOCIETY PLUS MEMBERSHIP IN THE PEORIA ACADEMY OF SCIENCE

***Payment is due by January 15, 2019***

***Please make checks payable to PEORIA ASTRONOMICAL SOCIETY, INC and mail to:***

Peoria Astronomical Society, Inc.  
P O Box 10111  
Peoria, IL 61612-0111

You may also bring your dues to the general meeting.

If you have a new email address or want to add an email address please let Scott Swords know at: [sswords3@comcast.net](mailto:sswords3@comcast.net).

THANK YOU AGAIN FOR YOUR CONTINUED SUPPORT OF THE PEORIA  
ASTRONOMICAL SOCIETY!! WE LOOK FORWARD TO SEEING YOU AT MONTHLY  
MEETINGS AND AT OUR STAR PARTIES.

Brian Hakes  
Treasurer

\*\* Any amount over \$30.00 is deductible on your income tax as a charitable contribution.

\*\*\* If your place of work has a **Matching Gift Program**, please give consideration to taking advantage of it to multiply your gift.

## **2019 Dues Notification**

This is the fourth year the initial dues notification embedded in the electronic newsletter.

You are welcome to mail your dues payment but it may be more convenient to bring it to the December or January general meeting in the planetarium.

As always, there will be subsequent follow-up mailings of dues reminders. The only exception to the mailing will be members who recently joined the society within the past two quarters, their dues are considered paid through 2019.

By mailing your dues payment or bringing it to a PAS meeting in the planetarium will defray the expense of postage associated with these follow up reminder mailings.

Once again, thank you for your continued support of the PAS,  
Brian Hakes - Treasurer

**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 August 2018 Minutes**

Meeting called to order at 7:50 pm, Proctor Place Third Floor Conference Room, August 15, 2018

**Attendees:** Jesse Hoover, Tatiana Johnson, Brian Hakes, Bill Cole, Phil Burroughs

**Minutes:** (Phil Burroughs) there were no minutes of the July meeting since Dan Son who took the minutes was not present.

**Treasurer's Report:** (Brian Hakes) – Receipts for July 2018 were \$ 318.26 and disbursements were \$ 51.57. Checking balance at the end of July was \$4,285.42. Dan Son donated a Northmoor register book. We had one new member. Jesse gave a presentation on the Perseid Meteor Shower at Dixon Mounds. He received \$ 50 for the presentation and is going to donate the money to the club.

**Jubilee:** (Bob Pauer) Jesse said Eric Clifton, Bob Pauer, and Dave Monroe are working on the mounting plate on the ICC scope.

**Northmoor** - Brian reported PEO, Peoria Education Organization, has requested a Northmoor viewing session with a tentative date of Sept. 5.

**Inventory** (Bob Pauer) – None

**Nominating:** (Tatiana Johnson) – Tatiana said Dave Monroe has accepted the position as Parliamentarian. She is going to send out an updated slate. Dan is going to send out the slate to all members one month before the voting at the banquet.

**Legal Agent:** (Dave Monroe) – None

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

**Starlite** (Jesse Hoover) – Deadline for the next issue of Starlite is tonight. Brian is going to write an article about Nick Johnson for Starlite

**Program:** (Sheldon Schafer). - None

**Peoria Academy of Science:** (Bill Cole) – None.

**Light Control:** (Jesse Hoover) – None.

**Observing Report:** (Gary Bussman) – Gary has sent out the report by Email.

**Website:** (Stan Pope) – None

**Old Business:** - The PAS Banquet will be at Johnny's Italian Steak House starting at 5:00 PM, Sunday, Sept. 23. Jesse is going to check with Dan about getting Jeff Constable of ICC as a speaker. If he agrees, his and his wife's dinners will be free.

**New Business:** - Dan and Jesse met with Canton officials about having a star party at Lakeland Park, Canton,



Illinois. The star party is scheduled for Oct. 6 with a backup date of Oct 13.  
Meeting adjourned at 8:28 pm. Minutes taken by Phil Burroughs, PAS Secretary

### **Peoria Astronomical Society October 2018 Minutes**

Meeting called to order at 7:400 pm, Proctor Place Third Floor Conference Room, October 17, 2018

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

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

**Treasurer's Report:** (Brian Hakes) – Receipts for August 2018 were \$ 432.08 and disbursements were \$ 160.15. Checking balance at the end of August was \$ 4,5557.35. Receipts for September 2018 were \$ 307.00 and disbursements were \$ 77.32. Checking balance at the end of August was \$ 4,787.03. Dave Monroe made the motion to approve the August and September Treasurer's Reports. Jesse Hoover seconded the motion and it passed.

**Jubilee:** (Bob Pauer) ICC Star Party had close to 100 people attending. Dan gave thanks to Bob Pauer for his work at Jubilee. The existing plate at Jubilee for the 14" scope has a warped mounting plate. The proposed fix is to have a machine shop cut off the warped plate and install a new plate with the correct mounting holes for the ICC scope. The ICC scope has new firmware installed and can now operate on a tripod. Its hand paddles need to be reconditioned, a new paddle cord is needed, and the motor is not working on the micro-focuser. This motor is only needed for astrophotography so replacing it is an option.

**Northmoor** - The Girl Scouts have a scheduled viewing for Nov. 15 at 5:45 PM. A new chairman is needed for Northmoor. Dan said he would like to find one by January 2019.

**Inventory** (Bob Pauer) – None

**Nominating:** (Tatiana Johnson) – None

**Legal Agent:** (Dave Monroe) – None

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

**Starlite** (Jesse Hoover) – Deadline for the Winter issue of Starlite is November Board Meeting.

**Program:** (Sheldon Schafer). – Sheldon has emailed 6<sup>th</sup> draft of program.

**Peoria Academy of Science:** (Bill Cole) – Bill said next meeting is Oct. 18

**Light Control:** (Jesse Hoover) – None.

**Observing Report:** (Gary Bussman) – Gary has sent out the report by Email.

**Website:** (Stan Pope) – None

**Old Business:** - The PAS Banquet at Johnny's Italian Steak House had good food and a good speaker. Jeff Constable, of ICC talked about adjusting his teaching style to his students learning level. The Canton Star Party was a rainout and will be rescheduled next Spring. Steve Russell needs to sell some of the club's old scopes on E-Bay.

**New Business:** - Pack 50 from Mossville has viewed Northmoor and now want to view Jubilee at a campout they are

having Oct. 27.

Meeting adjourned at 8:28 pm. Minutes taken by Phil Burroughs, PAS Secretary