

SP/CE

St. Petersburg Astronomy Club Examiner

February 2024

Editor – Guy Earle

The St. Petersburg Astronomy Club has been the center of family astronomy in the Tampa Bay Area since 1927. Our 412 adult members are dedicated to promoting and sharing the wonders and science of astronomy. We host a dark-sky star party each New Moon at Withlacoochee River Park, along with local star parties, telescope-making workshops, science lectures, astronomy lectures, educational outreach sessions and much more.

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March Preview

In next month's *Examiner*, our intrepid Field Reporter, Kelly Anderson, will provide a recap of our 2024 OBS star party.

Also, at our March General Meeting, Les Gatechair will give a presentation on "Remote Control Options for Imaging Telescopes."





February General Meeting

This month's general meeting will take place on Thursday, Feb. 22nd at 7:30 PM. The meeting will be *in person* at St. Petersburg College, Gibbs Campus, 6405 5th Avenue North, Natural Science Building, Classroom 236, 2nd floor, and also virtual. This month, SPAC member and asteroid and meteorite enthusiast **Greg Shanos**, will give a presentation, OSIRIS-Rex and Hayabusa 2 Sample Return Missions to Asteroids Bennu and Ryugu





Join Zoom Meeting HERE
Meeting ID: 852 9687 2152
Passcode: 111992

The club's **New Moon observing weekend** will by March 8th-9th at Withlacoochee River Park east of Dade City.



New SPAC Members

We would like to welcome Mark Anderson,
Ueangfa Buachum, Randall Weatherspoon,
Sam Brandt, Beverly Frable & Lori Brill,
Mandy & Francisco Campos, Mike Coate, Lou
& Jan Merriweather Emmi Poole, and Drayton
Browne to our family of members.

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President's Message

Happy Friday to everyone,



I must admit that I was convinced our current El Nino weather pattern was set to cloud up our 2024 OBS. While we did have clouds on some of the days, we did get in several nights of excellent viewing. This year's OBS had several firsts including a 30 minute hail storm on the first day of set up, an unexpected controlled burn (which clouded the skies Thursday) and capped off by a 2 hour helicopter search in the park for a missing person. Albeit, I feel we had a great OBS! We had a great turn out and the changes we made to OBS seem beneficial for our event. A big thank you is in order to A LOT of people who came out early to help with set up the electrical, the tents and parking signs. I want to also thank each and everyone of you for helping to break down then chairs and tables following our dinner on Saturday. This year was also unique in that I didn't have to scrounge for volunteers, everyone was eager to help. To me, this is a sign that we have a healthy club and are heading in the right direction.

Over the course of this year, Guy Earle and myself will be working on obtaining proposals for our North field expansion to include an equipment shed, power for scopes and additional RV 30 AMP hook ups. I would like to ask the club membership, if anyone is an electrical contractor of knows a reputable contractor, to please contact me as we will need an electrical contractor for the work needed. If we are able to economically afford the project, expanding into the North field will open up the best observing area in the park to everyone.

Lastly, we will have our general meeting next 7:30 PM, Thursday, February 22th at the St Petersburg College. Greg Shanos will present his talk on Osiris Rex \$ Hayabusa 2 Sample Return: Missions to Asteroids Benni and Ryugu.

SPAC New Moon Weekend Withlacoochee River Park January 2024

By Intrepid Field Reporter

We had two New Moon Weekends to start out the New Year with a dash of *eclat*¹. The first New Moon Weekend of the year was originally scheduled for January 5-7, but the forecast for those dates were, technically speaking, yucky. So a group that became known informally



as the "Sooner Cabal" decided to take advantage of a very good cloud forecast a week early. What could be better than looking for new astronomic marvels from our old, familiar dark site on the occasion of the New Year?

Part One December 30, 2023 – January 1, 2024

Happy New Year to one and all!

Festivities began on Saturday, December the 30th with the arrival of Joe Canzoneri, Bob & Rita Mizell, Bob Stelmock, Mike Partain, Guy Earle, Jamie Kenas and Laura Lanier. Sadly, your Intrepid Field Reporter could not be among the happy group because of previous commitments.

Forecasts were right on target with clear skies and good seeing for the duration. While most of the group could only stay for Saturday night, the first three of the above list stayed Sunday to take advantage of the excellent seeing. The following three images, courtesy of Joe Canzoneri, were captured Saturday evening. They are: NGC 6334/7635/2244, the Claw/Bubble/Rosette nebulae, respectively.

Earlier than the scheduled New Moon, but pretty good seeing. Comfortable temperatures? Not so much.

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Definition: noun, a brilliant display or effect.







Part Two

January 11 – 13, 2024

So. how'd we do for the second New Moon weekend? Don't ask.



Not much to look at for the real New Moon Weekend. That is, unless you enjoy staring at the bottoms of clouds and dealing with winter storms, cloudy but warm on Friday followed by plummeting temperatures and another winter frontal passage with the usual suspects attached.

Oh well. Next month it'll be great.

Don't forget the 2024 edition of the Orange Blossom Special takes place February 7-11. Even though clear skies are guaranteed (Mike Partain, our newly elected President, says so), we don't need no stinkin' stars to have a good time at our annual star party. Between all the daily activities, events and presentations we'll probably be too tired to astronomize much anyway. At least those of a certain age might need a little more rest than average. Present Intrepid Field Reporter excepted, of course.

January General Meeting

Even though time is short to put this issue together, I didn't want to leave this month without thanking NASA Astronaut Nicole Stott for joining us for a wonderful presentation at our January General Meeting. We had one of the largest crowds in years, and thanks to Brad Perryman for helping to arrange this presentation. Nicole talked about her experiences on three space shuttle



missions and spending 104 days on the International Space Station. Her post NASA career has been dedicated to art and art education, which she talked about and answered many questions, and also shared wonderful photos of her experiences.







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I also want to mention that Nicole Stott was very excited to find that within our SPAC family, the niece of members Dave Knowlton and his lovely wife is current NASA Astronaut Loral O'Hara, who is currently orbiting over our heads on the ISS. Nicole talked about her friendship with Loral and their love of painting.

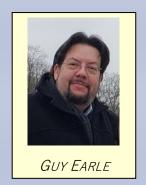




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Editor's Note

I had anticipated for the February edition to be a bit more voluminous, but on the Saturday of the OBS star party my laptop died and I was in a holding pattern until I could get it up and running again. That only happened on Thursday, yesterday, the day before the Examiner is due to go out. I have a few



things to contribute myself as observations from OBS and using my new Seestar and first impressions.

I will say this much, the Seestar is awesome, and Bob Stelmock's presentation on Saturday truly cements my love of this telescope. Conversely, the wonderful presentation by Peter McLean also shows how much true DSO imagers are in a subset of this hobby, a speciality that, even if I applied those brain cells that I have at full capacity, would find themselves limited in their ability to understand how to navigate Pixinsight and produce those amazing images. Les Gatechair gave great presentations as well, which he is bringing to our March General Meeting.

As a quick note, I think things went really well for OBS this year, of which no small part was played by all the volunteers who stepped up and went out of their way to ensure that Mike and I had an easier time keeping things on track for everyone. Most especially, I want to thank Doug Sliman and his digital expertise for providing Wifi for the field and constructing the image voting; and to Les for taking charge and running the best imaging platform and recognition I think we've ever had.

Also, for SPAC's FOO friends (Far Out Observatory), I wish to thank them for coming out on Friday for our Swap Meet. It has been growing the past few years and it was truly an overflow of gear and great deals. I'm a big advocate for not caring one bit which club you belong to as long as you are a good person and love the night sky. There are times that members of all clubs get territorial on membership, and I am wholly against it. What can be gained by throwing up barriers to a hobby that we all love, with people who are consistently honest and fun, in a sky that progressively grows brighter? More can be gained by club cooperation than confrontation, so if you go to FOO or Chiefland, let us know and spread the word. There is only one night sky, after all.

Lastly, in the meantime, here are some images that I took at OBS both with my phone, my Nikon D5100 and DJI Mini3 Pro drone:





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March Lunar Calendar

<u> </u>	March 2024				<u>>>></u>	
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						2
3	4	5	6	′(8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

March 3, Antares will be 0.4° south of the Moon

Third Quarter March 3

March 7, Mars will be 3.5° north of the Moon

New Moon March 10

March 10, the Moon will be at Perigee: 356,895 km from Earth

March 11, the Moon will cross the celestial equator going northward at the Ascending Node

March 13, Jupiter will be 3.6° south of the Moon

March 14, the Pleiades will be 0.4° north of the Moon

First Quarter March 16

March 19, Pollux will be 1.5° north of the Moon

March 19 is the Vernal Equinox, the beginning of fall for the northern hemisphere

March 21, Regulus will be 3.6° south of the Moon

March 23, the Moon will be at Apogee: 406,292 km from Earth

March 24, Mercury will be at greatest elongation from the Sun, 18.7° east

Full Moon, March 25, the Full Worm Moon

March 25 will be a penumbral lunar eclipse beginning 00:53 and ending 05:32 EDT. This will be very subtle and difficult to detect

March 25, the Moon will cross the celestial equator going southward at the Descending Node

March 26, Spica will be 1.4° south of the Moon

March 30, Antares will be .3° south of the Moon

Space Exploration News

So the Lunar Landing score, so far in this rush, is India 1, Japan 1, United States 0, Russia 0, as Japan's SLIM landed successfully on January 19, making Japan only the fifth country on Earth to successfully do so. Now the US is trying to go one for two on the launch yesterday of a totally privately funded lunar lander, Odysseus on February 15. If successful it will be the first privately funded lander on the Moon. It would also



mark the United States' first return to the Moon since 1972. Of course, it is aboard the lunar rocket du jour, Falcon 9 from SpaceX, as this will mark at least the 4th attempted lunar mission aboard that rocket. Odysseus is carrying six NASA investigatory payloads to the surface and an interesting project

from Embry Riddle University in Daytona Beach, EagleCam, which will be deployed before Odysseus lands with the aim of obtaining video of the Odysseus landing on the Moon.

Voyager 1 has been experiencing computer problems since December 12, 2023. Apparently one module, which collects data from the instruments onboard, has quit communicating properly with



the Flight Data System that sends reports back to Earth. This has resulted in the data being received in an incoherent jumbled "random" digital form that can't be read. Then, in February, NASA concluded that the real problem there is likely a single bit of Flight Data System memory that has been flipped by interstellar radiation. Since it takes 45 days to send instructions to Voyager 1 and get a reply back, Voyager is more than 162 astronomical units from Earth. Therefore, tracing which bit is responsible is going to take some time: months or years. That alone makes this problem the most serious in the 45 year history of the spacecraft.

In January, the Parker Solar Probe executed its 18th perihelion passage, matching its own minimum distance of the Sun of 7.26 million kilometers, 4.51 million miles from the Sun. That's only .048 astronomical units, less than 1/20 of Earth's distance. The closer Parker Solar Probe gets to the Sun, the faster it needs to move, and in setting the record smallest distance, PSP also set the largest velocity ever attained by a spacecraft, 635,266 kilometers per hour or 394,736 miles per hour.

For Sale

Listing #1: Orion 10" Skyquest telescope, eyepieces, and accessories for sale.

This telescope and accessories were brought by a lovely woman, Sherri Cope, at the Swap Meet on Friday at OBS. The equipment belonged to her late husband and she was seeking SPAC's help in selling them to a good home. I asked her to make a list of items which I would include along with some photos in the *Examiner*. There was not enough time for myself or Mike Partain to make a price list for her items, so I ask that if you are interested, please treat her fairly and give her an offer that would be comparable on Cloudy Nights or Astromart. She would prefer to sell everything together, but will possibly consider separating items. Please email her at: dzscope2@gmail.com or call at (513) 476-4667

Here is a list of items:

- 1. Orion Ultrascopic 35mm Multi-coated
- 2. Orion LaserMate Deluxe
- 3. Orion Ultrascopic 3.8mm Multi-coated
- 4. Orion Ultrascopic 5.0mm Multi-coated
- 5. Orion Sirius Plossl 10mm Multi-coated
- 6. Orion Sirius Plossl 25mm Multi-coated
- 7. Orion 2.3mm Lanthanum Fully Multi-coated
- 8. Orion Superwide 65 degree Lanthanum Multi-coated 8mm -Long eye relief 20mm
- 9. Orion Superwide 65 degree Lanthanum Multi-coated 22mm -Long eye relief 20mm
- 10. Orion Superwide 65 degree Lanthanum Multi-coated 17mm -Long eye relief 20mm
- 11. Orion Superwide 65 degree Lanthanum Multi-coated 13mm -Long eye relief 20mm
- 12. Orion Optiluxe 40mm Fully Multi-coated
- 13. Orion Optiluxe 32mm Fully Multi-coated
- 14. Orion Object Locator
- 15. Orion Ultrascopic 3-element Barlow Lens Fully Multi-coated
- 16. Orion 2x Barlow Lens
- 17. Orion 2" 4 piece set color lens filter (medium blue, green, deep yellow, red)
- 18. Orion 1.25" Skyglow Broadband filter

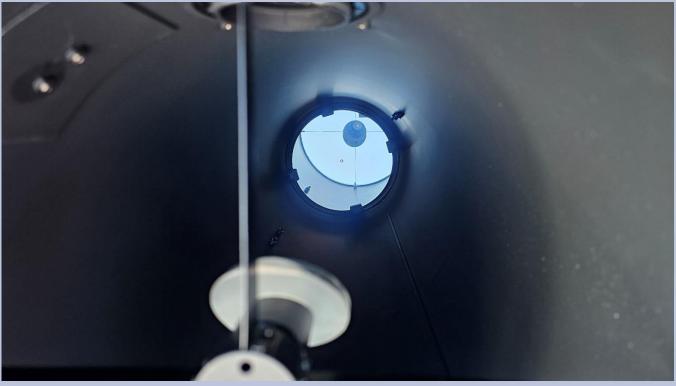
- 19. Orion camera (I believe thats what it is)
- 19. Orion 2" Moon Filter 13%T
- 20. Orion 1.25" Moon 13%T
- 21. Orion 1.25" 4 piece set color lens filter (yellow,red,blue, light green)
- 22. Orion 2" Ultrablock Narrowband filter
- 23. Orion 1.25" 4 piece set color lens filter (violet, yellow-green, orange, blue)
- 24. Orion 1.25" 4 piece set color lens filter (medium blue, green, deep yellow, red)





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Listing #2: Celestron Nexstar 6E with GPS, Skysync, Telrad star finder. Not shown but included, Power tank, A/C adaptor, Celestron eyepiece kit, dew shield. Have the original box. Price 550···.Separately, I have the Mark IV zoom lenses for sale, make offer. One leg brace cracked in cold weather years ago, but does not affect the performance. Telescoping leg does not slip.

I live in Parrish, FL and willing to set up for serious buyers at my home I share with wife and dog Molly. I am two miles east of the Outlet Mall in Ellenton.







SPAC Business Meeting



Our next business meeting is **Wed., Mar. 13th, at 8:00 PM** via conference call; details upon request. All interested members are invited to attend. All club business decisions are made at the business meeting so as not to encumber the general meeting.

Officers & Directors

President	Mike Partain	850-339-0828
Vice Pres.	Guy Earle	813-785-1972
Secretary	Shirley Vuille	727 864-2624
Treasurer	Jim Hunter	813 507-8415
Dirat-Large	Kyle Brinkman	727 455-6931
Dirat-Large	Steven Gaber	727 215-0464
Dirat-Large	Jack Fritz	727 692-9831
SPACE Editor	Guy Earle	813 785-1972
Public Relations	John O'Neill	727 637-5945
Membership Chair	Shirley Vuille	727 864-2624
Mirror Lab Chair	Paul McNabb	727-345-5713
Outreach Chair	Jim Hunter	813 507-8415
Star Party Chair	Mike Partain	850 339-0828
Librarian	Ralph Craig	727 384-2086
Club Webmaster	Jack Fritz	813 508-5680
Dark Sky Chair Lee	ann Muszynski	813-601-0986

Click on the name to send email

Withlacoochee New Moon Weekends

There's no need for reservations. However, the park closes at sundown, so you will need to arrive before then. The park rangers will give you

Withlacoochee River Park - Dade City, FL
Detailed directions can be found at:
www.stpeteAstronomyClub.org

the gate-code once you're inside the park. Please do not call for the gate code as they are not allowed to give it out over the phone.



Reservations are not necessary. Please print and display our <u>Friends-Of-The-Park Pass</u> on your dashboard.

Please join us! All astronomy enthusiasts are welcome. You do not need to be a club member to attend. Please refer to our <u>Club Calendar</u> for details and scheduled dates.



St. Petersburg Astronomy Club

Recognition of Patrons & Benefactors

Lakeisha & Stephen Black	Benefactor
David Brewer	Benefactor
Walter Brinkman	Benefactor
Dave & Deborah Catalano	Benefactor
Stephanie Colon &	
Ariel Grajales	Benefactor
Jack & Roni Fritz	Benefactor
Michael Haworth & Melanie Otte	Benefactor
Valerie Hyman	Benefactor
Naseeb Nas Kaleel	Benefactor
Jamie Kenas	Benefactor
David Knowlton	Benefactor
Laura & Roy Lanier	Benefactor
Greg Legas	Benefactor
Brenda Lorenz	Benefactor
Dave Lorenz	Benefactor
Tod Markin	Benefactor
Kelly McGrew	Benefactor
Kevin & Karen Mulford	Benefactor
Will & Jenni Nelson	Benefactor
David & Tara Pearson	Benefactor
Rath, Damon & Jean Futch	Benefactor
Vincent Risalvato &	
Tabitha Castillo	Benefactor
Christian & Wendy Rubach	Benefactor
Doug and Teri Sliman	Benefactor
Jill & Robin Sumner	Benefactor
Andrew & Bonnie Watts	Benefactor
**********	******
Bill & Norma Amthor	Patron

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Steve Gaber & Karen Sell	Patron
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Matt Labadie & Jennifer Willman	Patron
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Leeann Muszynski	Patron

St. Petersburg Astronomy Club *Examiner*

Robert Nadeau & Ali Wuchert	Patron
Bill & Kim Northup	Patron
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Michael & Carli Partain	Patron
Brad & Lisa Perryman	Patron
Alan Polansky	Patron
Thomas & Andy Prince	Patron
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Mike Rozycki	Patron
Gregory Satchwell	Patron
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Anthony Staiano	Patron
Jonathan Stewart	Patron
Tom & Michelle Sweet	Patron
Wally & Ramona Vazquez	Patron
Elizabeth Wood	Patron



St. Petersburg Astronomy Club Membership Form

Membership in St. Petersburg Astronomy Club, Inc. (SPAC) is open to anyone, regardless of age, who is interested in astronomy. Benefits of membership include a monthly subscription to the SPAC Examiner newsletter, reduced camping rates and use of the club's bunkhouse at our dark sky site at Withlacoochee River Park, the ability to serve on the SPAC board and voting privileges. Dues are considered donations and are non-refundable. Membership options are available as listed below.

You are now able to choose how you wish to join or renew your membership:

- Preferred On-line Website Option: New instructions as our website has been updated. Go to https://www.stpeteastronomyclub.org/Sign_In.php on the SPAC website where you can join, view and update your membership profile, provide payment, and **print your membership card**.
- US Mail Option: Takes more time to process manually because we are all volunteers.

Complete the attached membership form and send it along with your payment to:

Jim Hunter 17316 Oak Ledge Drive Lutz, FL 33549. (Checks should be made payable to SPAC, Inc.)

Adult 1: _		Adult 2:
		Cell Phone:
Email Add		
Number of		under 18:
Membersh	ips:	
Single:	[]	\$ 30.00/YR. Includes one adult, minor children, the "SPACE" newsletter, and all the rights
and pri	ivileges o	f membership.
Family:	[]	\$ 35.00/YR. Includes two adults, minor children and the above rights and privileges.
Patron:	[]	\$ 50.00/YR. A Patron member is entitled to the above rights and privileges.
Benefactor	:[]	\$100.00/YR. A Benefactor member is entitled to the above rights and privileges.
Student:	[]	FREE. SPAC offers free membership to full time high school and college students.
		Expected date of graduation:
Total Subn	nitted:	\$

Your SPAC Membership Card is required for reduced fees at the campground.