THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

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Arizona State University Explores the Solar System

by

Dr. David A. Williams
Arizona State University

Dr. David A. Williams of Arizona State University, will be featured at the January meeting of the Saint Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, January 19 via Zoom online video conference. For the Zoom link, please see below.

NASA's program for Solar System Exploration has been active since the 1960s, with robotic spacecraft, including flybys, orbiters, landers, rovers, and sample returns. These machines have visited all of the major planets, as well as dwarf planets, asteroids, and comets. Arizona State University (ASU, Phoenix-Tempe) has been a leader in planetary geology research for decades, along with St. Louis' own Washington University. What current missions and destinations are in NASA's plans? Join Dr. Williams for a deep dive into the various missions exploring the Solar System this decade and beyond.

Dr. David A. Williams is a Research Professor in the School of Earth and Space Exploration at Arizona State University, Tempe, Arizona. He is currently performing research in volcanology and planetary geology, with a focus on planetary mapping, remote sensing, and computer modeling studies. He was involved with NASA's Magellan Mission to Venus, Galileo Mission to Jupiter, Dawn Mission to asteroid Vesta and dwarf planet Ceres, and ESA's Mars Express orbiter. He is currently Deputy Imager Lead on NASA's Psyche Mission to the "metal asteroid". David is a Fellow of the Geological Society of America, and asteroid 10,461 DAWILLIAMS was named in his honor.

Upcoming meetings:
February: Angela Speck, PhD 2024 Eclipse University Texas San Antonio
March: Tom Rathjen, The Moon & Beyond, NASA
April: Gautham Narayan, PhD "4 Meter Telescope in Chile"; Univ of Illinois
May **Fran Bagenal, PhD., Exploration of Jupiter System: Past, Present and Future; University of Colorado at Boulder**
June: Steven R Gullberg, PhD., Archioastromy; University of Oklahoma
July 2024: Ashley Davies, PhD. "Juno Close Flybys of Io"; JPL
November 2024: Robert Zubrin, PhD. "The Case for Mars"; The Mars Society

January 19th Meeting will have the usual Zoom link and will be ONLINE ONLY.

The SLAS meeting for January will be via Zoom ONLY. Washington University does not allow scheduling before two weeks after classes start for the semester. That is too late for the January meeting. The Zoom room will be open from 7-10:30 pm. Meeting starts at 7:30 pm. **To join Zoom Meeting for SLAS Regular Meeting with computer or smartphone: use the below link. https://zoom.us/j/8604505790?omn=91696112100 meeting ID: 860 450 5790**

Announcement:

Homemade Fest Set!

Saturday, Febuary 24
Kirkwood Community Center
See page 3 for details

Inside This Issue

President's Corner Memberships Starbq quiz	2
Homemade Fest Special Awards	3
Francis Park Eclipse Glasses	4
NSN Outreach hours Danville Permits	5
Board Minutes	6
Financials	7
Events	8
Contacts	9

President's Corner
by Jim Small

Happy New Year! I hope your holidays were as good as mine were. Get anything fun this year? If you did, we'd sure like to see it at Homemade Fest on Saturday, February 24th. We moved the date to the Saturday the weekend AFTER meeting weekend because we now do JCO events the Saturday after the meeting. It would be great to read a review of anything new you might have via an article for the newsletter, too!

Apologies for not meeting in person this month. I'll miss it. Turns out that Wash U now doesn't allow scheduling of rooms until two weeks after classes start (which was this week). As I don't have any contacts on the inside any more with someone that can override that situation, we'll just have to make do.

Tim Russ last month was a terrific speaker and very down to earth! I really enjoyed his presentation and he provided some great information, especially for beginners. I'll have some new ideas to present to folks who are interested in getting started in astronomy.

Congratulations to **Christine Nobbe** and **Dan Crowson** on their awards last month. Christine received the **Richard D. Schwartz Supportive Faculty Award** which is given to a local educator at K-12 or college level who supports the mission of SLAS by providing astronomy-related talks to SLAS or the St Louis area. Dan received the **Robert E. Cox Popular Astronomy Award** which is given to a local amateur who publishes or produces work recognized at a regional or national level or having major contribution to popularizing astronomy at the regional or national level. There are normally five special awards given out each year, but we didn't have any nominations for the other three awards. Hopefully we will rectify that in 2024!

Next month Angela Speck will join us in advance of the April 8 Total Solar Eclipse. We haven't had her speak to us in a while and I'm really looking forward to it!!

Speaking of the eclipse, what are your plans? If you have cool plans or interesting equipment you will use to view it, Homemade Fest would be a great place to do a presentation. I am personally giving my Monday astronomy students the day off from class so they can view it. I'll likely be in the Jackson area for my personal viewing. I'll be mobile though so I can take advantage of moving in case of bad weather.

Clear skies (I hope),
Jim Small

SLAS Memberships Expiring in January

Robert	Drzymala
Dale & Gaylene	Engelbrecht
Greg	Gaines
Mike	Hays
Richard	Heuermann
Catherine	Hooper
Ron	Jones
Tom	Keutzer
Ken	Kibort
Nicholas	Kirschman
Rosanne	Naunheim
Patrick	Rauls
John	Schwartz
James	Smith
James	Timper
Dave	Walden

SLAS Memberships Expiring in February

Mark	Biernack
Jeff	Carpenter
Craig	Cottrell
Andrew	Gondzur
Timothy	Hulla
James	Idoux
Richard M.	Jenning
Dennis	Latinette
Mike	Mortimer
Chelliah	Navin
John	Sullivan
David	Trumbo

From the StarBQ Quiz

The match game

2-1. Match these stars to their contellation (Taurus, Gemini, Leo, Virgo, Scorpius) (5 points total) _____Aldebarran_____ Antares _____Castor _____Regulus _____Spica

2-2. Match these Messier objects to their contellation (Taurus, Gemini, Leo, Virgo, Scorpius) (5 points total)
_____M1 (crab) _____ M4 _____M35 _____M65 _____M87

2-3. Match these these constellations with their official meaning (Antila, Apus, Camelopardalis, Circinus, Grus) (5 points total)_____Crane _____Bird-of-Paradise _____ Air pump _____Compass _____Giraffe

2-4. Match the first 5 objects released by JWST in July 2022 with their constellation. (Cosmic Cliffs, SMACS 0723, Stephans Quintet, NGC 3132 Southern Ring, WASP-96b) (5 points total) _____ Carina, _____Pegasus, _____ Phoenix, _____Vela, _____ Volans

2-5. Match these colors to the closest stellar classification (OBAFGKM) (5 points total) _____Red, _____ White, _____Blue, _____ Yellow, _____Orange

2-6. Greek letters are used on star maps to indicate brightness ranking within a constellation. Alpha is usually the brightest star, beta is second brightest, gamma is third, etc. Match these Greek letters. (alpha, gamma, epsilon, eta, iota) (5 points total) _____ ε, _____ η, _____α, _____ γ, _____ ι

2-7. Symbols are used to denote planets. Match these symbols to its planet. (Mercury, Venus, Mars, Uranus, Neptune) (5 points total
_____♂, _____ ♀, _____ □, _____ □, _____ □

2-8. Most Moon maps use latin words as names for lunar features. Match these words to best English equivalent. (mare, lacus, sinus, vallis, mons, rima, rupes) (5 points total) _____ valley, _____ escarpments, _____ rilles, _____ lakes, _____ bay

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Answer #2-1: Taurus, Scorpius, Gemini, Leo, Virgo
Answer #2-2: Taurus, Scorpius, Gemini, Leo, Virgo
Answer #2-3: Grus, Apus, Antila, Circinus, Camelopardalis
Answer #2-4: Cosmic Cliffs, Stephan's Quintet, WASP-96b, Southern Ring, SMACS 0723
Answer #2-5: M, A, O, G, K
Answer #2-6: epsilon, eta, alpha, gamma, iota
Answer #2-7: Mars, Venus, Mercury, Uranus Neptune
Answer #2-8: vallis, rupes, rima, lacus, sinus

Homemade Fest 2024

Saturday Evening, February 24, 2024

Kirkwood Community Center

Greetings SLAS Collective! Now that the Holidays are basically over, chase away those winter blues and join fellow SLAS members and guests for our annual pot-luck dinner. It is time for you to inform the SLAS Collective what you received for Christmas, built, refurbished, improved, imaged, explanation of a concept, or something you just can't do without. It will also give you another chance to present your plans for the TSE for 2024. If you have a presentation to make, please send in your requests to the Borg Collective. Just let us know your topic and how much time you will need. Also, please let us know what food item you are bringing. Send requests for Presentations and Food Items to Bradley Waller at vicepresident@slasonline.org

Attendance prizes will be drawn throughout the evening

Time: 4:30pm to 10:00pm

Location: Kirkwood Community Center, Room 300

111 South Geyer Road, Kirkwood, MO 63122

This event is free to all SLAS members and their families. Guests are $5 each. RSVP on SLAS Night Sky Network is optional but encouraged.

Congratulations to the Special Recognition Award winners for 2023!

Left: Christine Nobbe wins the **Richard D. Schwartz Supportive Faculty Award**

Right: Dan Crowson wins the **Robert E. Cox Popular Astronomy Award**

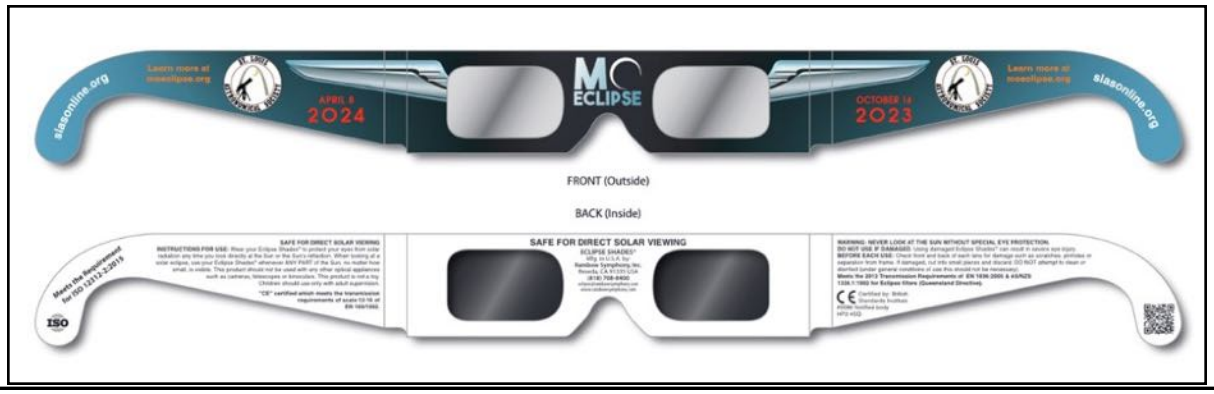
Francis Park Stargazing · 2024 Schedule

Presented by the St. Louis Astronomical Society

Enjoy Wednesday night stargazing sessions at Francis Park! All are welcome to join us! Stop by and look at the Moon or bring your observing gear. This event is scheduled near the First Quarter Moon each month. We provide views of craters, mountains, and shadows on the Lunar surface. Members of the St. Louis Astronomical Society also share telescope views of planets when they are visible. Jupiter and Uranus will be visible this Spring, Mercury this Summer, and Venus and Saturn this Fall. You may even be able to observe a distant double star! **LOCATION** We set up in Francis Park in south St. Louis city, at Tamm Ave. & Itaska St. Events will be canceled for unfavorable weather or sky conditions. Visit www.slasonline.org, and click Event Calendar for up-to-date information.

Date	Time	Moon Age	Planets we can Observe	Safe Solar Observing
Wednesday, April 17	7:00-9:30PM	9 days (wax. gibbous)	Jupiter, Uranus.	n/a
Wednesday, May 15	7:00-9:30PM	8 days (first quarter)	None.	Before sunset.
Wednesday, June 12	7:00-9:30PM	7 days (first quarter)	None.	Before sunset.
Wednesday, July 10	7:00-9:30PM	5 days (wax. crescent)	Mercury.	Before sunset.
Wednesday, Aug. 7	7:00-9:30PM	3 days (wax. crescent)	Mercury, Venus.	Before sunset.
Wednesday, Sept. 11	7:00-9:30PM	8 days (first quarter)	Venus, Saturn.	n/a
Wednesday, Oct. 9	7:00-9:30PM	7 days (first quarter)	Venus, Saturn, Neptune.	n/a

Eclipse Glasses For Sale to SLAS Members SLAS 2023/2024 Eclipse Glasses have arrived! They will be available to purchase at our regular meetings or contact Mark Jones (secretary@slasonline.org) to pick up glasses anytime. Price $1 each, or 50 glasses for $35



Night Sky Network Outreach Awards

In Feb 2024 SLAS will be recognizing the members who volunteered for Public Outreach in 2023. We had 40 members volunteer for events in 2023!!

NSN guidelines allow awarding of volunteer pins for members who volunteered for 5 or more events in 2023. **Please logon into NSN and verify your volunteer hours for 2023. Please do this by Jan 20th 2024.** If you have trouble updating or checking your numbers, please contact me. https://nightsky.jpl.nasa.gov/news-display.cfm?News_ID=1015

Thank you to all who volunteered in 2023, please update your numbers by Jan 20, 2024

Here is a quick talley based on current NSN records

John Strebeck	91	events; 259.5	hours
Kathleen Strebeck	85	events; 240.5	hours
Donald Ficken	39	events; 115.5	hours
Carl McCullough	26	events; 80	hours
Mark Jones	26	events; 78.5	hours
Cook Feldman	22	events; 77.5	hours
Richard Fefferman	17	events; 39	hours
Bill Biermann	16	events; 42.9	hours
Stephen Kelly	15	events; 39.5	hours
Dennis Latinette	15	events; 37.8	hours
Randy Harrison	12	events; 45	hours
Bill Breeden	12	events; 42	hours
Richard Jennings	12	events; 23.8	hours
Ronald Sides	11	events; 28	hours
Rick Menendez	9	events; 18	hours
James Small	8	events; 23	hours
Larry Campbell	6	events; 17	hours
Maryanne Angliongto	6	events; 15.5	hours
Bradley Waller	6	events; 15	hours
Chris Hanson	5	events; 16.5	hours
Frank Mack	5	events; 11	hours
Phyllis Nolan	4	events; 12	hours
Mary Barteau	4	events; 10.5	hours
Kenneth Levy	4	events; 10	hours
James Malke	4	events; 8.5	hours
Alfred Schovanez	3	events; 11	hours
Frederick Fischer	3	events; 10	hours
Larry Meyer	3	events; 6.5	hours
Joseph Barteau	3	events; 6.5	hours
John Duchek	3	events; 6	hours
Timothy Hulla	2	events; 9	hours
James Idoux	2	events; 7.5	hours
Rosanne LeBaige	1	events; 6	hours
Laureen Caliman	1	events; 3	hours
Kunal Kotkar	1	events; 3	hours
Tom Keutzer	1	events; 2	hours
Allan Stewart	1	events; 2	hours
Benjamin Winningham	1	events; 2	hours
David Adkins	1	events; 2	hours
Jeff Kisslinger	1	events; 2	hours

SLAS Group Astronomy Permit for Danville.

If you haven't been in the loop lately and you observe at either Danville or Whiteside conservation areas, pay attention to this article. Conservation Rangers are looking for people to have a permit to be on the property to observe. Be sure you have a copy of the permit we have obtained on hand in case a Ranger makes an inquiry while you are observing.

The Missouri Department of Conservation has approved our application for all of SLAS. This permit is for Danville only, so if Whiteside is needed, you may want to submit one for that location. I had to be very specific with the location for this permit. I have saved a copy of it to our Groups.io site. Download and print it out, and carry it in your observing kit. SLAS will need to reapply each year. The ranger I spoke to was very appreciative of our group keeping eyes on the site and applying for a permit, but also indicated that we do not need several people from SLAS applying individually.

I have added this instruction to the Danville events on NSN as well.

---Download the Missouri Conservation Department Special Use Permit, print it out, and carry it in your observing kit for presenting to Conservation Rangers upon demand. SLAS has a group permit, available on our Groups.oi site, here. https://groups.io/g/SLASDialogs/files/Permits.

Clear Skies, Bill Breeden

Below: Tim Russ of Star Trek speaks to the group about his experiences in amateur astronomy. It was a great talk!

St. Louis Astronomical Society
Devoted to the Interest and Advancement of the Science of Astronomy
Executive Board Meeting Minutes 12/7/2023

1. Opening Activities: a. Attendance: Jim Small, Brad Waller, Larry Campbell, Randy Harrison. Dennis Latinette, Brent Buch b. Open Meeting: Meeting opened at 7:10pm c. approval of last month's minutes. Motion to approved by Larry second by Randy, minutes approved d. Next Board meeting date (on approval of board): 1/4, 2/1, 3/7, 4/4, 5/2, 6/6, 7/11, 8/1, 9/5, 10/3, 11/7, 12/5 Meetings will be via Zoom until further notice: Motion: Brent to approve Board meeting dates second by Mark. First Friday at SLSC (telescope viewing and indoor programming) - We certainly plan to have nighttime and solar observing with SLAS throughout 2024, but the current administration at the Science Center is halting us from scheduling any engagements (even those with no budget impact – like telescopes) until our final budgets are approved. I would hope they approve our budgets ASAP since 2024 is right around the corner, but for now I am in a holding pattern. As soon as I am permitted to commit to dates for next year, I'll reply with the dates we're looking at. **Action: Mark to send Board Meeting 2024 dates to Will Snyder**

2. Upcoming General Membership meeting topics:
a. **Speaker**: Tim Russ b. Special Awards needed: Special awards ceremony. Larry will conduct awards. c. Speaker Press Release: not sent yet d. Special Business – Final vote to approve 2024 budget e. A101 –no but we do have Solstice attendance prizes to give out. Other speaker options - NASA Museum & Informal Education Alliance.
Action: Larry to send the 2 awardees letter of congratulations. Also invite them to meeting Action: Larry to send names and awards for plaques. Plates for perpetual plaque. Action: Jim S to order, pickup the plaques Action: Jim Small to set up special Zoom link for Tim Russ
f. **Hospitality:** a. Budget – 2023 Budget $330, balance **Action: Larry to send more receipts to send to Bill. Larry has sent receipts through October, close action**

3. SLAS Financial Report as of Not reviewed at December Meetinga. Balance Sheet: total assets; Savings b. Profit/Loss report: Income:. c. Annual Budget meetings: Insert text in budget commentary to clarify depreciation amounts listed in past budgets. d. Corporate filings: not due until May **Action: Need to get Bill and Jim together to reinvest CDs. Bill suggests changing to Commerce Bank for CDs. Will move at least $20000 to CD's.**

4. Speaker Committee There is an Open Door Policy when it comes to Bookings. If you are working on a Presenter, please keep Brad informed. If you do not and Brad books the Month you were wanting, Brad's booking comes first. Feel free to contact Brad to see if I am working on any Bookings. Brian May as speaker for 2024? Dr May is working on Lucy, New Horizons Action: to contact Brian May Brad has mailed mugs to Dr Lowenthal and Tim Russ a. Budget – 2023 Budget $400, Balance 57.36 b. Upcoming speakers:

SLAS Monthly Meeting Presentations 2023

Month	Name	Topic	Sponsor
15-Dec-2023	Tim Russ	Space, The Final Frontier Star Trek	
19-Jan-2024	Robert Zubrin	The Case for Mars	Mars Society
16-Feb-2024	Angela Speck	Eclipse	UT San Antonio
15-March-2024	Tom Rathjen	The Moon and Beyond	NASA
19-April-2024	David A Williams	ASU Explores the Solar System	Arizona State University
17-May-2024	Fran Bagenal, PhD	Exploration of Jupiter System: Past, Present and Future	Univ of Colorado
21-June-2024	Steven R Gullberg	Archeo Astronomy	U Oklahoma

d. Topics of interest e. Stipends f. Travel **Action: Randy to contact Gautham Narayan from Univ of Illinois 4-meter telescope in Chile. Randy will give info to Brad at December meeting Action; Brad to contact Cameron Moye a Wash U. grad student who works for Brad Jolliff at Washington U. He could probably speak at our meeting on his work on Lunar South Pole planning. Brad has sent emails to Cameron but no response, Brad will email Dr. Jolliff**

5. Membership Initiatives a. Budget – 2023 Budget $600, Balance $102 b. Welcome Aboard Meetings – c. Raffles – d. Attendance prizes – **Action: Jim and Brent to explore platform (Twitch (best for live streaming), Discord (best for collaborative chat/audio activities), etc.) possibilities and report to Board at future Board meeting. Engaging younger people with SLAS.**

6. Membership Recognition a. Total Budget 2023 Budget $500, Balance $365 b. NSN Outreach Awards: c. Membership Report: d. Member anniversary – **Action: Mark needs to send list and Larry to send list to Jim for Newsletter, Mark to send certificates to Brad for printing. Closed Action: Larry to buy 2023 anniv pins. Closed**
e. Special Award program - 1. Special Award Committee report: Chairman – Larry Campbell, Jim Small, Mark Jones, Sharon Bertram, Fred Schovanez, Bill Neubert, Grant Martin, Bill Bierman, Rich Heuermann, Joe Marcus 2. Special Award deadlines: Current Nomination deadline is Sept 1st 3. Nomination reviews: by October 1st 4. Award selection: 5. Awards presented at December meeting - Action: Larry to setup Specials Award meeting to discuss nominations. Closed Committee meeting held November 16, 2023 and two awards Robert Cox and Richard Schwartz awards. Bill Biermann volunteered to be the new Committee Chair and to set up meeting early in 2024.

7. Outreach - a. Budget – 2023 Budget $500, Balance $500 b. Member Training Program Status: c. Purchase of T-shirts for volunteers completed training d. e. Upcoming outreach events: Indoor programming for First Friday at the SLSC and planning for STEM programs Gateway Arch - March 23, 2024 (Saturday), May 11, 2024 (Saturday), June 14, 2024 (Friday), July 12, 2024 (Friday), August 10, 2024 (Friday), September 13, 2024 (Friday), Oct 18, 2024 (Friday) Francis Park – Dates for 2024: April 17, May 15, June 12, July 10, August 7, September 11, October 9 Tower Grove Park – April 13, May 18, June 15, July 13, Aug 10, Sep 14, Oct 12 DobsonFest – Sep 14 hosted by Riverbend Astronomy Club f. Awards/recognitions – g. NSN Outreach hours YTD: 2023: 1420.5 hours **Action; Mark need T-shirt design. Mary and Joe Barteau volunteered to come up with T-shirt designs. Slideshow of examples sent to Board on 10-31-23. Action remains open until final design selected. Board preferred Safety Green in style #3 is preferred by Board Do they have t-shirt in a Tall/long?**

8. Old Business: Discuss issues with volunteers for star parties. Perhaps appoint a coordinator whose main job is to insure we have adequate number of members in the volunteer pool for events. Discuss methods to encourage members to volunteer for star parties. Try to find out why people aren't volunteering. Come up with an action for this issue. Possible actions: 1. convene a virtual meeting for all NSN coordinators to discuss volunteer ideas 2. Send email asking for a volunteer coordinator 3. Conduct monthly A101 about Outreach Training 4. have a new member events (1) welcome aboard and orientation; have new member events at JCO; new member telescope help events, mentor outreach. 5. Find Volunteer Coordinator for LTP program only **Action: Mark to schedule a virtual meeting for all NSN coordinators to discuss volunteer ideas**

9. New Business

10. Other Committee Reports: If needed

A. SLSC Business: a. First Friday actions – b. Other immediate business

B. SLCL Business a. Annual contract – b. Upcoming events

C. Jefferson College Business: a. Committee Meeting report: b. Upcoming Outreach Event: JCO – Jan 20, Feb 17, Mar 16, April 20, May 18, Jun 15, Jul 20, Aug 17, Sept 14, Oct 10, Nov 16 **Action: Mark to buy replacement part for the RA motor encoder part # 820019. According to Meade. They don't have the item in stock at the moment, it might take a month or 2 until we get them. We can create the order so that when it becomes**

(Continued on page 7)

St. Louis Astronomical Society
Profit & Loss Budget vs. Actual
January through December 2023

	Jan - Dec 23	Budget	$ Over Bud...
Ordinary Income/Expense			
Income			
Events Income	630.00		630.00
Magazine Subscription	2,647.40	3,154.95	(507.55)
Membership Dues	5,045.00	5,630.00	(585.00)
Merchandise Sales			
Total Income	8,322.40	8,784.95	(462.55)
Cost of Goods Sold			
Magazine Subscriptions	2,862.39	3,171.90	(309.51)
Merchandise	319.30	650.00	(330.70)
Total COGS	3,181.69	3,821.90	(640.21)
Gross Profit	5,140.71	4,963.05	177.66
Expense			
1-Programs & Events	1,805.02	3,095.30	(1,290.28)
2-Newsletter	579.13	600.00	(20.87)
3-Library expense	446.15	500.00	(53.85)
4-Astronomical League Dues	1,070.00	1,200.00	(130.00)
5-Loaner Scopes	1,325.61	100.00	1,225.61
6-Brochures	227.00	600.00	(373.00)
7-Insurance	1,163.09	1,050.00	113.09
8-Website	543.08	750.00	(206.92)
9-Administrative Expenses	3,792.23	3,832.80	(40.57)
Jefferson College Observat...	235.71	5,000.00	(4,764.29)
Total Expense	11,187.02	16,728.10	(5,541.08)
Net Ordinary Income	(6,046.31)	(11,765.05)	5,718.74
Other Income/Expense			
Other Income			
Donations	1,636.52		1,636.52
Eclipse Escrow Receipts	70.00		
Interest Income	28.20	50.00	(21.80)
LTP Receipts	7,727.27		7,727.27
Total Other Income	9,461.99	50.00	9,411.99
Other Expense			
Eclipse Escrow Dispursements	50.00		
LTP Disbursements	7,545.24		7,545.24
Total Other Expense	7,595.24		7,595.24
Net Other Income	1,866.75	50.00	1,816.75
Net Income	**(4,179.56)**	**(11,715.05)**	**7,535.49**

St. Louis Astronomical Society
Balance Sheet
As of December 31, 2023

	Dec 31, 22	Dec 31, 23
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	16,660.91	12,205.70
Deposit, Certificate of	15,976.91	16,000.89
Library Telescope Escrow	2,459.77	1,964.87
PayPal	494.39	152.96
Savings - First Bank	41,148.96	43,138.18
SLAS Eclipse Conference Escr...	0.00	2,580.32
Total Checking/Savings	76,740.94	76,042.92
Other Current Assets		
Inventory Asset	675.61	841.87
Undeposited Funds	375.00	50.00
Total Other Current Assets	1,050.61	891.87
Total Current Assets	77,791.55	76,934.79
Fixed Assets		
Accum Depr - Office Equp	(216.65)	(216.65)
JC Scope and Observatory	12,460.24	9,137.44
Office Equipment	216.65	216.65
Total Fixed Assets	12,460.24	9,137.44
TOTAL ASSETS	**90,251.79**	**86,072.23**
LIABILITIES & EQUITY		
Equity		
Opening Bal Equity	8,497.66	8,497.66
Retained Earnings	75,243.71	81,754.13
Net Income	6,510.42	(4,179.56)
Total Equity	90,251.79	86,072.23
TOTAL LIABILITIES & EQUITY	**90,251.79**	**86,072.23**

(Continued from page 6)

available, we'll let you know automatically. The cost would be $70.00 plus $15 for shipping.

D. Library Telescope Committee a. Budget – 2024 Budget none requested, expenses will be covered by escrow balance of $2460 b. Upcoming builds or maintenance events c. Maintenance budget – none requested d. Mileage re-imbursement – see above e. Promotional materials - none requested

E. SLAS Social Events a. Budget – 2023 Budget $365, Balance $365 b. Homemade Fest - 2023 budget $125 Target date is Feb 24, 2024 c. Star-B-Q – 2023 budget, $240

Other

F. SLAS Brochures a. Budget 2023 $600, Balance $486 b. Quarter cards – New order coming

G. Loaner scope Program a. Budget – 2023 Budget $ 100, Balance $0 b. New donations: Celestron C8 with CG5 mount

c. Replacement Parts for the LPTs d. Items for sale several:

Status for sale items 4.25-inch f/10, Reflecting Telescope, Wooden Tripod, 6x30mm finder, 1 ¼ focuser, $10 Majestic Tripod Head-only, Heavy Duty head, w/1/4x20 screw mount, Mounts to 1.5" post, crank pivots head in altitude direction, $10 Small Equatorial Mount. Manual with slow motion knobs and counterweight. Similar to Sky-Watcher EQ-2 mount, $30

H. SLAS Library a. Budget – 2023 Budget $500, balance $420

b. Other –

I. Merchandise 36 of the new coffee mug design are ready for sale to members. $10 each or two for $15

J. Telescope Making

K. Newsletter a. Budget 2023 $600, Balance $110

L. Website - a. Budget 2023 $750, Balance $425

M. Social 69 members of Private FB page 3100 followers on Public FB

N. Night Sky Network

O. SLASdialogs SLAS Groups.io – 128 members

P. Dark Site

Q. Observing Programs

R. Star Parties Donation:

11. Closing Activities: Motion to adjourn the meeting by Larry seconded by Randy meeting adjourned at 9:08pm

Upcoming Star Parties and Other Events

For details on these and other upcoming events, check out the Night Sky Network Calendar linked on the Home Page for SLAS at http://www.slasonline.org

SLAS Executive Board Meetings All meetings are on First Thursdays unless noted. ***Note: Board meetings will be via Zoom until further notice.*** Dates for

SLAS Dark Sky Observing Dates All dates on Saturdays 2/10, 3/9, 4/6, 5/4, 6/1, 7/6, 8/3, 8/31, 9/28, 10/5, 10/26, 11/2, 11/30, 12/28

Francis Park Events: These events are on Wednesdays of the week nearest the first quarter Moon 4/17, 5/15, 6/12, 7/10. 8/7, 9/11, 10/9

Aim for the Stars Public events held on 3rd Saturdays at the Jefferson College Observatory and Patio.

Stargazing at the Arch Events for the public held at the Gateway Arch

Sky Orienteering Events For members who want to gather and do some relaxed observing at Babler State Park (BSP) or at the Jefferson College Observatory (JCO) Please RSVP if you plan to come!

SLSC Public Telescope Viewing Events: These events are held the first Friday of the month Planetarium shows start at 7pm

Pattonville Observatory Public Viewing Dates 2022-2023: 1/26, 2/9, 2/22, 3/8, 3/22, 4/12, 4/26, 5/3, 5/10

Broemmelsiek Astronomy Park Public Viewing Every Friday

UMSL Observatory
For directions and map
http://www.umsl.edu/~physics/About%20the%20Department/astro.html All sessions include viewing of 1st quarter Moon with additional objects Skywatch Hotline: 314-516-5706
Saturdays:

LET US KNOW YOU ARE COMING!

To RSVP for any of these events log in to the Night Sky Network and submit your RSVP. If the event is canceled, you will be notified immediately according to the preferences you have selected.

SLAS Events

January

19 Fri	SLAS Regular Meeting
20 Sat	Aim for the Stars at JCO
24 Wed	Jefferson County Windsor
25 Thur	SLAS New Member Zoom
26 Fri	St Josephs

February

1 Thur	Parkway North
1 Thur	SLAS Board Meeting
2 Fri	STL Literacy Group
10 Sat	Library Telescope Maintenance
10 Sat	SLAS Dark Sky at Danville
12 Mon	Blackburn Park
16 Fri	SLAS Regular Meeting
17 Sat	Aim for the Stars at JCO
20 Tue	Eclipse Education at O'Fallon, IL Library
22 Thur	SLAS New Member Zoom

March

5 Tue	Eclipse Education Freeburg
7 Thur	SLAS Board Meeting
9 Sat	Star Party at Laumeier
9 Sat	SLAS Dark Sky at Danville
12 Tue	Eclipse Education Event
13 Wed	Mascoutah Library
14 Thur	Eclipse Best Practices Riverside
15 Fri	Blessed Sacrament Star Party
15 Fri	SLAS Regular Meeting
16 Sat	Aim for the Stars at JCO
19 Tue	Scott AFB Eclipse Talk
22 Fri	Stacy Park
23 Sat	Gateway Arch Eclipse Program
23 Sat	Mastodon Fair
28 Thur	SLAS New Member Zoom
30 Sat	Let's Talk About Space

April

2 Tue	Pre-Clipse
4 Thur	SLAS Board Meeting
8 Mon	Total Solar Eclipse
13 Sat	Tower Grove
14 Sun	Stacy Park
16 Tue	Manchester Park
17 Wed	Francis Park
18 Thur	Stargazing at the Gateway Arch
19 Fri	SLAS Regular Meeting
20 Sat	Aim for the Stars at JCO

For other events, watch the calendar on the website. Virtual stargazing events and other online activities will be registered there. We hope you can join us for some of these activities!

SLAS Merchandise Available

SLAS merchandise is now set up for embroidery at **Headz n Threadz at www.headznthreadz.com**

There is now only one location:
1065 Regency Parkway, St. Charles MO 63303
Telephone: 314.528-8100
sales@headznthreadz.com
Simply take the garment, hat, etc you wish to have embroidered and they will take care of it. They have the SLAS logo on file. You may make modifications to the colors if you wish.
SLAS Logo is also available at www.Infini-tees.com

SLAS MEMBERSHIP APPLICATION

Name: Last _____

First, Middle Initial _____

Address _____

City, State, Zip Code _____

email address _____

Please send completed form with check (no cash please) made payable to

St Louis Astronomical Society

Don Ficken, Membership
13024 Barrett Crossing CT
St. Louis, MO 63122

Youth @ $10.00 / 1 year (18 yrs or younger) $_____

Individual @ $25.00 / 1 year $_____

Family @ $40.00/1 year $_____

Publications with discount available with your SLAS membership:

Sky and Telescope @ $45.75 / 1 year $_____

(S&T may also be renewed at their website: http://www.skyandtelescope.com)

Astronomy @ $34.00 / 1 year $_____

TOTAL ENCLOSED **$_____**

Check all that apply:

___ Renewal
___ Address Change Only
___ Please send my newsletter by regular mail
___ ***New Member!***

SLAS OFFICERS

President ***Jim Small*** 314-307-0692
president at slasonline.org

Vice President ***Bradley R Waller*** 314-481-7250
vicepresident at slasonline.org

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secretary at slasonline.org

Treasurer ***Bill Winningham, (Don Ficken - membership)***
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Hospitality ***Larry Campbell*** 636-244-2867
hospitality at slasonline.org

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board24 at slasonline.org

Randy Harrison 618-267-1659
board25 at slasonline.org

Dennis Latinette 314-713-9258
Board26 at slasonline.org

ALCOR ***Bill Winningham*** 636-357-2763
(Astronomical League Correspondent)
treasurer at slasonline.org

MSRAL Rep. ***Peggy Walker*** 918-640-0832
msral_rep at astroleague.org

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webmaster at slasonline.org

Devoted to the Interest and Advancement of the Science of Astronomy

ST. LOUIS ASTRONOMICAL SOCIETY

We're on the Web!
http://www.slasonline.org

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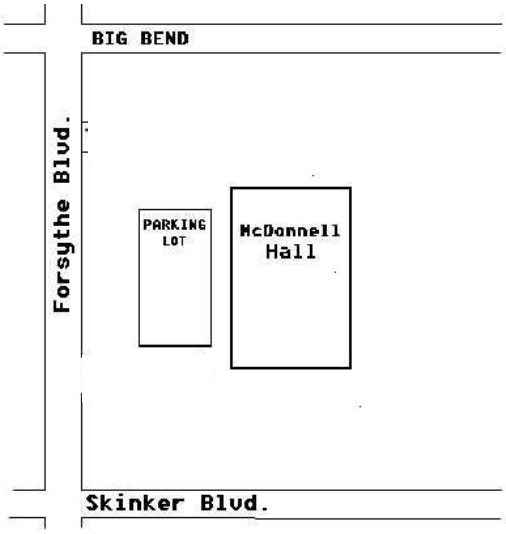
Who We Are and What We Do

St. Louis Astronomical Society is a not-for-profit organization established in 1936. SLAS is devoted to the interest and advancement of the science of astronomy. Our mission is to promote an understanding of the science of astronomy to our members and to the public. Membership is open to any-one with an interest in astronomy.

For more information contact any SLAS officer or visit our website listed above. SLAS is affiliated with the Astronomical League, Night Sky Network and the Mid-States Region of the Astronomical League.

Meetings are held the 3rd Friday of each month at McDonnell Hall at Washington University. See the map to the right for directions.



St. Louis Astronomical Society
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