THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

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James Webb Space Telescope's First Year of Science
by
Panel of Local Astronomers

A panel discussion by local astronomy enthusiasts will be featured at the August meeting of the Saint Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, August 18 in McDonnell Hall, Room 162, on the Danforth campus of Washington University, Saint Louis, MO 63105.

It has been one year since the James Webb Space Telescope's first full-color images and data were released. In that time the JWST has been collecting images and data from objects near and far away. Planets in our Solar System have been seen with amazing detail. Stars and planets now forming have been detected in our Milky Way galaxy. Stars and galaxies in the early universe have been revealed. Scientific frontiers are being pushed to new limits due to JWST's ability to image and analyze infrared light. What has Webb shown us? What does it mean? Our panel will share their thoughts and provide some insight into JWST's first year of science. This presentation is part of a series of NASA sponsored events. Colorful posters will be given to all in-person attendees.

Upcoming meetings:

September: Eclipses TBA
October: Brian Kloppenborg, AAVSO
November: James Lowenthal Smith College
December: TBA

July 21st Meeting will be In Person and on Zoom

The SLAS meeting for July will be in-person and via Zoom. The Zoom room will be open from 7-10 pm. Meeting starts at 7:30 pm. **To join Zoom Meeting for SLAS Regular Meeting with computer or smartphone: Just click the link: https://zoom.us/j/8604505790**
Meeting ID: 860 450 5790

McDonnell Hall is accessible from Forsyth Boulevard via Tolman Way. Free yellow zone and garage parking spaces are available. The event will also be available via Zoom online conference.

ASP2023: August 18, 2023
A Virtual Conference
Exploring the Art, Culture, and Science of Solar Eclipses
Virtual Talks and Panels Celebrating Two Upcoming Awe-Inspiring Solar Eclipses

ASP2023 promises to be exciting as we approach our two upcoming solar eclipses crossing the Northern Hemisphere; the Annular Solar Eclipse on October 14, 2023, and the Total Solar Eclipse on April 8, 2024. Our day will feature talks and panels as well as smaller group discussions exploring perspectives about solar eclipses through art, culture, history, and science.

Who is invited? Astro 101 instructors, K-12 educators, scientists, science communicators, public engagement professionals in Astronomy, and the general public. Cost of the program is $25

PROGRAM: **Guest Speakers/Panelists**
Panel: Nancy Maryboy, **David Begay**, and **Guests**, Indigenous Cultural Astronomers
Panel: Julia Bradshaw, Art Professor **I Kevin Jerome Everson**, Artist **I Tyler Nordgren**, Astronomer & Artist
Speaker: Kate Russo, Author, Psychologist, Eclipse Consultant
Speaker: E.C. Krupp, Director, Griffith Observatory
Guest Speaker Details

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President's Corner
by Jim Small

The eclipse is coming! The eclipse is coming! Magic words to astronomers. First an annular eclipse in October, then a total eclipse next April. To get ready for both, an eclipse expo was staged in Cape Girardeau last month. It was pretty well attended, but not as well as the expo we held here in St. Louis for the 2017 eclipse. But the excitement was still there. Several SLAS members attended and there were a lot of good talks, including Mr Eclipse himself, Fred Espenek. Daystar filters was in attendance and I purchased a solar filter for my 150-600mm Zoom lens. This should be a much easier shoot than the last eclipse. I'll be better prepared.

The big decision for me is whether to travel to the southwest to see the Annular eclipse on Saturday, October 14. It's convenient for my schedule, AND I have an invite for a place to stay, so I have a feeling I'll be making the trip. I'm finished with classes on the Wed before and I don't have a class until the Monday afterwards at 3:30, so it's a perfect schedule for making the trip. I have to decide what equipment I'll take and how much to set up. AND, if I have a good internet connection, I might try a live feed either on Youtube or on Twitch, a platform specifically designed for livestreaming. Lots to decide, but if I make the trip, you'll be in the know.

We have a TERRIFIC panel discussion coming up for the August meeting. You WILL want to attend in person!!! We have TONS of great prints to give away with JWST images. Be sure to come to McDonnell hall to see this month's panel. It will be available on Zoom, but that won't get you access to the prints and other goodies!

Congratulations to Mark Jones and the others who came to the Perseid event held at Babler State Park Saturday!!! Mark says he didn't see any meteors, but the 700 people who attended sure did judging from the ooo's and ahhh's from the crowd! That's right. **700 people**!! Hey SLSC, let us use the archery field for First Fridays again! I think we can draw a great crowd for you!

Sincerely,

Jim Small

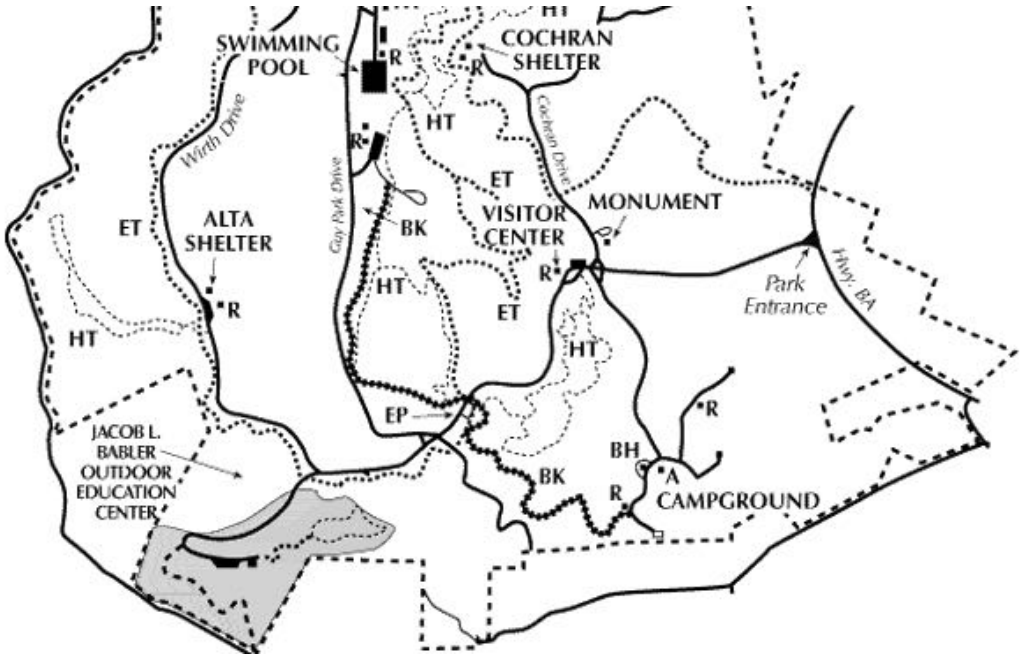
20th Annual SLAS Star-B-Q
Saturday, October 7, 2023
|Alta Picnic Shelter

Come join fellow members of the SLAS in **Babler State Park** at the **Alta Picnic Shelter** for a day of food, games, and observing. ***This area has a large shelter, restrooms.*** SLAS will once again provide the hamburgers and hotdogs. We ask for you to bring your favorite drinks and side dish or dessert. Don't forget to bring your telescope or binoculars, chairs and bug spray!

Activities will include: ***Astronomy Trivia Quiz and prizes, solar viewing and plenty of socializing***! Then we pack up and move to the Babler Monument area where we will observe from 6:30-Midnight. Don't have a telescope? Don't worry this is a great chance to see other member's telescopes.

2pm – Picnic begins
3pm-5pm Food line open
4pm-5pm Trivia Contest (with prizes)
5pm-6pm- cleanup shelter
6:30 Sunset Move to Monument Area
6:30pm-midnight- Observing at Monument Area

Special Note: There will be solar viewing during the day



A free event,
View the Moon,
Saturn, Star
Clusters, Nebulas

Prizes
Food Trucks
Family Friendly

Broemmelsiek
Park Astronomy
Site
1611 Schwede Rd
Wentzville, MO
63385

ASTRONOMICAL SOCIETY OF EASTERN MISSOURI

QUESTIONS? EMAIL QUESTIONS@ASEMONLINE.ORG-

SCAN ME

SATURDAY, SEP. 16, 2023
4PM-9PM

JOHN DOBSON'S BIRTHDAY CELEBRATION

John Dobson taught how to make inexpensive large telescopes, accessible to everyone.

Would you like help using or setting up your telescope? Bring it along and ASEM pros can help you with it.

Dobsonfest

The St Louis area astronomy clubs will be celebrating John Dobson's birthday on Saturday, September 16, 2023 at Broemmelsiek Park in St Charles County. John Dobson taught how to make inexpensive large telescopes, accessible to everyone. Would you like help using or setting up your telescope? This will be a free event. Activities will include:
Astronomy-related doorprizes will be drawnSolar viewing during the day
Activities for the kids like, making your our Planispheres; personalizing your eclipse glasses
How to select a first telescope
Library telescopes and binoculars
Demonstrations on setting up your telescope
Display of telescope accessories
Telescope making and mirror grinding
Solar viewer for solar eclipse - demo how eclipses work
Night time demo on using your dobsonian

SLAS Special Awards Nominations for 2023 are Open

The annual SLAS Special Awards nominations are open for 2023. There are five awards to be presented as follows:
The Albert M. Obrecht, Founders Award
The Lois D. Fitter Outreach Award
The Richard D. Schwartz Supportive Faculty Award
The Robert E. Cox Popular Astronomy Award
The Alfred L. Woods Mentoring Award

The Obrecht, Fitter and Woods awards must be SLAS members, the Schwartz and Cox awards are not restricted to SLAS. For the full form to nominate, including definitions of awards, see this link: **https://www.slasonline.org/files/award/SLASAwardNominationForm.doc** The deadline for nominations is Sep 1st The completed form should be attached to an email and sent to awards@slasonline.org with the subject line Award Nomination Form Submission. Committee members are Chairman – Larry Campbell, Sharon Bertram, Bill Biermann, Richard Heuermann, Mark Jones, Joe Marcus, Grant Martin, Fred Schovanez, Jim Small, and Bill Neubert

SLAS Memberships Expiring in August

Thane & Marlene	Bopp
Bo	Cooper
Charles	Davis
Scott	Devine
Larry	Evans
Frederick	Fischer
David	Harris
Matt	Kastigar
Robert	Kessler
Younas	Khan
Kenneth	Levy
Larry	Meyer
Phyllis	Nolan
Jacob	Raby
C M	Sabinash
Christian	Schulte
James	Tyrrell
Maria	Vertkin

SLAS Memberships Expiring in September

Russ	Bacon
Mark	Bremer
William F.	Davis
Lawrence	Doepke
Brian	Dowe
Edward	Frey
James	Horrar
Thomas C.	Kuehling
Gregory	Lunte
James T.	Melka
William J.	Neubert
John	Newcomer
William	Nienaber
Renee	Rieser
Gary	Runge
Orevia	Vongsa
Dr. Bruce A.	Wilking

Top Left: The SLAS booth at the Eclipse Expo held in Cape Girardeau July 21-22nd **Top Right:** Fred Espenek, known as Mr. Eclipse, speaking about eclipses, the difference between an annular eclipse and a total eclipse, how to view an eclipse and how to photograph an eclipse. **Above:** some of the many attendees in the audience for some of the talks. **Below:** Panel discussion from Friday night at the Eclipse Expo.

Perseids Over Babler Park
by Mark Jones

Skies were partly cloudy last night at Babler for Perseid Meteor watching. Park officials estimated 700 people came out. The meadow around the monument area was pretty full. Cars parked on both sides of entry road from the kiosk near front gates past the monument, then past the visitors center almost to the equestrian parking. That is almost 1.2 miles! Not many meteors early but from 10:30 to midnight the crowd oh'd and ah'd clapping and cheering when a bright meteor was seen. Great social interaction, many this is how the ancients observed these showers, in a social grouping so much more fun than alone.

Thanks to SLAS members who brought out telescopes, Fred Fischer, Tim Hulla, Ron Sides, Mark Jones. We looked primarily at double stars Mizar and Albireo early then switched to Saturn once it cleared the trees. Seeing was pretty steady. Skies cleared enough to look at M22, M17. Park officials had to announce closing around 12:15am and ask us to leave.

Awesome view of the crowd gathering at Babler State Park for the Perseid Meteor Shower. Photo by Mark Jones

Top: crowd getting settled to watch for meteors for the evening.

Above Left: The monument area of Babler State Park

Above Right: Nice pic of the skies as it got dark on the fields. There was enough clearing to see some meteors!

Left: Relaxing as it gets dark on the field. All you need is a blanket or a reclining chair!

Photos by Mark Jones

Another successful Library Telescope maintenance took place Saturday, August 12 at St. Louis County Library. 10 telescopes were worked on by SLAS members Don Ficken, Mark Jones, Ron Sides and Richard Jennings as well as some library personnel.

Morrison-Talbott Public Library
by
Rich Fefferman

There had recently been a severe storm just north of the library, so the power was out when we arrived. Since it was dry we decided to do a modified library presentation outdoors on their patio, since it was getting dark inside the building. The power came back after a bit and we did a sky tour and eclipse presentation with a simulation of views of the Moon and Venus. Attendance was 16, good under the circumstances. Mary and Joe Barteau, Robert Goddard, Dennis Latinette, and myself volunteered

Left: Rich Fefferman demonstrating the library telescope.

St. Louis Astronomical Society
Devoted to the Interest and Advancement of the Science of Astronomy
Executive Board Meeting Minutes 7/6/2023

1. Opening Activities: a. Attendance: Jim Small, Larry Campbell, Dennis Latinette, Mark Jones, Brent Buch, Randy Harrison b. Open Meeting; 7:09pm c. Approval of last month's meeting minutes. Motion to approve minutes Dennis second by Larry. Minutes approved. d. Next Board meeting date: Aug 3, Sep 7, Oct 5, Nov 2, Dec 7 Meetings will be via Zoom until further notice:
SLSC Will Snyder SLSC Update First Friday at SLSC (telescope viewing and indoor programming) - August 4, September 1, October 7, November 3, December 1. You can register for any upcoming events for which you are interested here: https://www.slsc.org/first-friday-partner-application/first-friday-approved-partner-registration/. Nonprofit partner tables do not have a cost.
Solar Viewing SLSC - July 9, 16, 23, 30; August 6, 13, 20, 27; September 3 SLAS hosting a one-year Anniversary review of JWST coinciding with NASA new results release for the Aug 18th meeting. at Wash U. We will need camera setup in from of panel. Action: Jim to provide camera and microphones for JWST panel discussion, USB extension and tripod.

2. Upcoming General Membership meeting topics: a. Speaker: Linda Shore, CEO of Astronomical Society of the Pacific b. Special Awards needed: no c. Speaker Press Release: Info provided to Rich Heuermann d. Special Business – none e. A101 – SLAS Outreach Training Other speaker options - NASA Museum & Informal Education Alliance.
f. **Hospitality:** a. Budget – 2023 Budget $XXX Thank you to Larry Campbell for providing Mars Rover JPL cakes at June SLAS meeting Action: Larry Campbell to purchase special cake for August SLAS meeting, JWST theme

3. SLAS Financial Report no report this month a. Balance Sheet: b. Profit/Loss report: c. Annual Budget meetings: d. Corporate filings: not due until May Action: Bill will adjust depreciation of scope and dome based on proportion of replacement cost Action: Need to get Bill and Jim together to reinvest CDs Action: Did we have March and June door prizes expense?

4. Speaker Committee a. Budget – 2023 Budget $400 b. Upcoming speakers:

SLAS Monthly Meeting Presentations 2022-2023

Month	Name	Topic	Sponsor
21-Jul-2023	Linda Shore	Outreach	ASP
18-Aug-2023	Panel	JWST 1st Anniversary Results	SLAS, SLSC
15-Sep-2023	TBA	Oct 14th Solar Eclipse	
20-Oct-2023	Brian Kloppenborg		AAVSO Director
17-Nov-2023	James Lowenthal		SHINE Smith College
15-Dec-2023	TBA		

d. Topics of interest e. Stipends f. Travel Action: Brad to ship mug to Stephen Hummel, still in work. UPS was expensive. Brad will send USPS Action: Brad to submit invoices for Stephen Hummel postage. Action: Brad to submit expense form for $100 honorarium to Harry Krantz and include mailing address Action: Send mugs to other speakers. Haojing Yan, Alan Dyer, Nathalie Nguyen-Quoc Ouellette PhD, Laurie and Kimberly Sibbald, Brett McGuire Action: Randy to contact Gautham Narayan from Univ of Illinois 4-meter telescope in Chile. Action: Jim to contact Vivian White and Angela Speck about eclipse talk for October meeting.

5. Membership Initiatives a. Budget – 2023 Budget $600 b. Wel-

come Aboard Meetings – c. Raffles – d. Attendance prizes – Send suggestions for Brad Action: Jim and Brent to explore platform (Twitch, Discord, etc.) possibilities and report to Board at August Board meeting. Engaging younger people with SLAS.

6. Membership Recognition a. Total Budget 2023 Budget $500 b. NSN Outreach Awards: c. Membership Report: The latest membership report shows 223 members which is a 8.6% decline in membership this year and the lowest level of membership for our club since June 2021. The most notable decline has been in family memberships which have fallen sharply over the last two years. I am noticing many are switching their family membership to an individual membership during renewal. Also, we are not getting as many new members as in recent years. For example, we had 22 new members this year through June. For the comparable six months, we had 31 new members in 2021 and 27 new members in 2022. Standing Action: Mark to send pre-meeting slide show to Brent Buch so Brent sharing during meeting. Brent will need share privileges before next meeting. Standing Action: Bill to provide list of expiring memberships to SLAS Board and Jim for newsletter d. Member anniversary –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 Jim has added Rich Heuermann and Joe Marcus to recognition@slasonline.org distribution list

7. Outreach - a. Budget – 2023 Budget $500 b. Member Training Program Status: c. Purchase of T-shirts for volunteers completed training d. Purchase of lawn signs: e. Upcoming outreach events: needs to be performed relating to indoor programming for First Friday at the SLSC and planning for Stem programs and at least 1 astronomy day event Gateway Arch events start May 26. New flyer published by NPS Francis Park - May 24, June 21, July 26, Aug 23, Sep 20, and Oct 18 Tower Grove Park - July 19, Sep 30, Oct 21. Special Event - Astronomy Festival Sep 30, 2-5pm JCO – Aug 6, Sep 3, Oct 1, Nov 5, Dec 2. Special eclipse event Oct 14
Dobsonfest 2023 hosted by ASEM, Saturday, Sep. 16, 2023, 4PM-9PM f. Awards/recognitions – g. NSN Outreach hours YTD:

8. Old Business: Action: Jim Small send in AL By-Laws ballot but disapproving Section 5. Contracts Requiring prior approval by President of AL. Second by Larry. Board approved motion.

9. New Business Action: Add eclipse glasses to new Business next month for discussion of pricing schedule Unit cost= $0.286), sales and distribution. Board will defer this to June meeting. ASEM selling to members $1 each or 50 for $35 Board agrees to sell to members and other non-profits only. Do not sell but give away glasses at outreach events. If we sold 4,365 glasses at $0.70 each. Then SLAS would break even ie sales $3,056. Therefore, we could give away 6,311 glasses. SLAS Policy - This policy is subject to change as the eclipse dates get closer, but is intended as the initial guidelines for early events. SLAS has purchased 10,676 solar glasses for sales and promotion give-a-ways, with the primary goal of giving away free glasses to the public during SLAS events. This policy is to provide SLAS members with a clear understanding on how this will be done. First, SLAS agrees that solar glasses may be sold only to members and other non-profit organizations at a cost of $1 each or 50 glasses for $35. Second, SLAS agrees to provide free solar eclipse glasses to event leaders of SLAS public outreach events where the 2023 and 2024 solar eclipses are being promoted through presentations and training. All these glasses will be distributed free, one per person at event. Other public bulk sales or bulk give-a-ways must be requested separately. Event leaders must submit their email requests to: board@slasonline.org, stating the events they will support and the number of glasses they need. Leaders may request more glasses if they run out. Initial requests for special eclipse events where SLAS will provide glasses for free distribution. Library Telescope Programs - Leaders have agreed to include education on proper viewing of the eclipses with solar glasses. For the initial request we would expect to give away approximately 50 glasses per event. Therefore, the request is for 500 glasses to cover 10 events. More will be requested if attendance exceeds this estimate. Gateway to the Stars - Leaders have agreed to include education on proper viewing of the eclipses with solar glasses. There are 5 events planned for the remainder of 2023. We would expect to give away approximately 50 glasses per event. Therefore, the request is for 250 glasses to cover these 5 events. More will be requested if attendance exceeds this estimate. Other events where glasses may be requested if leaders agree to include education on proper viewing of the eclipses with solar glasses. Francis Park, Tower Grove Park, SLSC First Friday, SLSC Solar Viewing, Jefferson College Observatory, Solar Eclipse Expo - SLAS is not planning to distribute glasses at this event; JCO Sept 14, 2023 Solar Eclipse event; Stacy Park Motion: By Mark Jones to approve policy Second by Brent, motion passed Action: Mark to store small quantity of eclipse glasses at Wash U for sale to members. Put in bundles of 50.

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 – see calendar
C. Jefferson College Business: a. Committee Meeting report: b. Upcoming Outreach Event: 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 available, we'll let you know automatically. The cost would be $70.00 plus $15 for shipping.
D. Library Telescope Committee a. Budget – 2023 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 Next LTP build June 20, 16 scopes.
E. SLAS Social Events a. Budget – 2023 Budget $365, b. Homemade Fest - 2023 budget $125 c. Star-B-Q Planned for Oct 7 at Babler State Park– 2023 budget, $240 Other
F. SLAS Brochures a. Budget 2023 $600 b. Quarter cards –Last time we printed gateway arch cards cost $56 for 400 cards. Brad ordered and received 400 cards total invoice $113.50.
G. Loaner scope Program a. Budget – 2023 Budget $ 100 b. New donations: 8" Coulter Odyssey, ZWO1600MC camera from Bill Neubert c. Replacement Parts for the LPTs d. Items for sale several: 2 Vixen 70mm scopes, 1 sextant, Meade 70mm refractor, Pentax 20x60mm sold at MSRAL
Status for sale items Celestron PowerSeeker 127 reflecting telescope, $50 Orbitor 4.5" Reflecting Telescope, $40 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 b. Other –
I. Merchandise 36 of the new coffee mug design are reay for sale to members. $10each or two for $15
J. Telescope Making
K. Newsletter a. Budget 2023 $,
L. Website - a. Budget 2023 $, Action: Brent to add 2023 meeting videos to website
M. Social
N. Night Sky Network
O. SLASdialogs SLAS Groups.io – Action: Mark to send notice to groups.io and private FB members to make sure their memberships are current otherwise they will be purged as of Aug 1st.
P. Dark Site
Q. Observing Programs
R. Star Parties Donation:

11. Closing Activities: Motion by Larry second by Randy meeting adjourned 8:45pm

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

	Jan - Jul 23	Budget	$ Over Bud...
Ordinary Income/Expense			
Income			
Events Income	390.00		390.00
Magazine Subscription	1,519.15	2,019.70	(500.55)
Membership Dues	2,820.00	2,965.00	(145.00)
Total Income	4,729.15	4,984.70	(255.55)
Cost of Goods Sold			
Magazine Subscriptions	1,667.04	2,036.65	(369.61)
Merchandise	242.92	650.00	(407.08)
Total COGS	1,909.96	2,686.65	(776.69)
Gross Profit	2,819.19	2,298.05	521.14
Expense			
1-Programs & Events	1,143.41	1,835.30	(691.89)
2-Newsletter	489.92	375.00	114.92
3-Library expense		100.00	(100.00)
4-Astronomical League Dues		1,200.00	(1,200.00)
5-Loaner Scopes	1,024.29	50.00	974.29
6-Brochures	113.50	300.00	(186.50)
7-Insurance	1,163.09	1,050.00	113.09
8-Website	325.28	500.00	(174.72)
9-Administrative Expenses	2,229.46	2,223.30	6.16
Jefferson College Observat...		5,000.00	(5,000.00)
Total Expense	6,488.95	12,633.60	(6,144.65)
Net Ordinary Income	(3,669.76)	(10,335.55)	6,665.79
Other Income/Expense			
Other Income			
Donations	721.52		721.52
Interest Income	15.21	30.00	(14.79)
LTP Receipts	5,039.25		5,039.25
Total Other Income	5,775.98	30.00	5,745.98
Other Expense			
Eclipse Escrow Dispursements	50.00		
LTP Disbursements	5,235.16		5,235.16
Total Other Expense	5,285.16		5,285.16
Net Other Income	490.82	30.00	460.82
Net Income	**(3,178.94)**	**(10,305.55)**	**7,126.61**

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

	Dec 31, 22	Jul 31, 23
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	16,660.91	10,657.61
Deposit, Certificate of	15,976.91	15,990.06
Library Telescope Escrow	2,459.77	1,887.72
PayPal	494.39	734.13
Savings - First Bank	41,148.96	43,136.02
SLAS Eclipse Conference Escr...	0.00	3,394.76
Total Checking/Savings	76,740.94	75,800.30
Other Current Assets		
Inventory Asset	675.61	918.25
Undeposited Funds	375.00	75.00
Total Other Current Assets	1,050.61	993.25
Total Current Assets	77,791.55	76,793.55
Fixed Assets	12,460.24	10,521.94
TOTAL ASSETS	**90,251.79**	**87,315.49**
LIABILITIES & EQUITY		
Equity		
Opening Bal Equity	8,497.66	8,740.30
Retained Earnings	75,243.71	81,754.13
Net Income	6,510.42	(3,178.94)
Total Equity	90,251.79	87,315.49
TOTAL LIABILITIES & EQUITY	**90,251.79**	**87,315.49**

We could use articles for the newsletter. The following topics are fine for submission.

1. Star party reports. Let us know how a star party you attended went! Photos would be most welcome in addition to the article.

2. Observing reports. Actually made it out observing? Let us know how it went. Taken some astrophotos? Please submit!

3. Bought something or built something? How about a review or an article!

Send an editable document or images to newsletter@slasonline.org
Please provide captions if sending images.

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 2023: 9/7, 10/5, 11/2, 12/7

SLAS Dark Sky Observing Dates

Francis Park Events: These events are on Wednesdays of the week nearest the first quarter Moon
8/23, 9/20, 1018

Aim for the Stars Public events held on 1st Sundays at the Jefferson College Observatory and Patio.
8/6, 9/3, 10/1, 10/8, 10/15, 10/22. 10/29, 11/5, 12/2

Stargazing at the Arch Events for the public held at the Gateway Arch
8/25, 9/22, 10/27,

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: See you in August!

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

August

18 Fri	SLAS Regular Meeting
19 Sat	SLAS Danville
20 Sun	SLSC Solar Public Telescope
23 Wed	Francis Park
24 Thur	SLAS New Member Zoom
24 Thur	Columbia Library Star Party
24 Thur	Stacy Park Stargazing
25 Fri	Stargazing at the Arch
27 Sun	SLSC Solar Public Telescope
29 Tue	Bridgeton Trails Library
30 Wed	Blue Moon Sappington House

September

1 Fri	First Friday Telescope View SLSC
3 Sun	SLSC Solar Public Telescope
3 Sun	Aim for the Stars at JCO
7 Thur	SLAS board meeting
9 Sat	SLAS Danville
15 Fri	SLAS Regular meeting
16 Sat	Dobsonfest hosted by ASEM
16 Sat	SLAS Dark Sky at Danville
16 Sat	Jefferson College Observing
18 Mon	Dayspring Academy at Babler
20 Wed	Francis Park
20 Wed	Rock Road Library
21 Thur	Cliff Cave Library
21 Thur	SLAS New Member Zoom
22 Fri	Stargazing at the Arch
22 Fri	Crestwood Park
23 Sat	Stacy Park Stargazing
23 Sat	Celebrate Wildwood
26 Tue	Manchester Parks Fussner
29 Fri	Starry Nights at Stacy Park
30 Sat	Astronomy Festival Tower Grove
30 Sat	Tower Grove Stargazing

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

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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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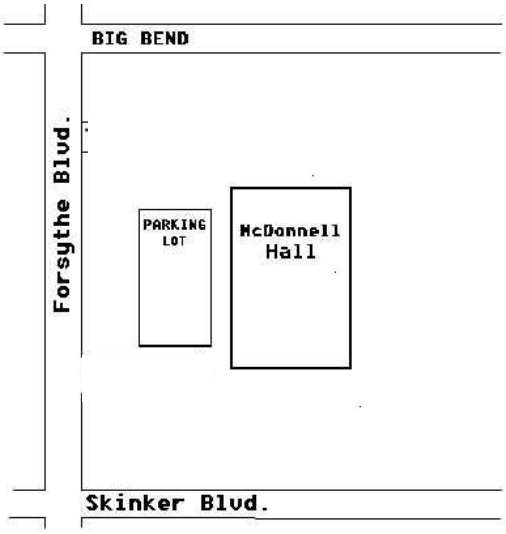
Who We Are and What We Do

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.



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