THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 33, Issue 9
September, 2023

Two Moon Shadows You Won't Want to Miss

by

Vivian White
Astronomical Society of the Pacific

Vivian White of the Astronomical Society of the Pacific will be featured at the September meeting for SLAS.

An eclipse occurs when the light from one astronomical body is blocked by a second astronomical body. An eclipse of the Sun occurs when and where the shadow of the Moon falls upon the Earth. An eclipse of the Moon occurs when the shadow of the Earth falls upon the Moon. An eclipse will be total if the shadow covers the entire body. The eclipse will be partial if only part of the eclipsed body passes inside the shadow. An annular eclipse occurs when the Moon's shadow is too small to cover the entire solar disk, so that a "ring of fire" results at mid-eclipse. There will be an annular eclipse of the Sun on October 14,2023. The next total solar eclipse will occur on April 8,2024.

Vivian White will provide an overview of the two upcoming solar eclipses, how to prepare for partial eclipses, and where to be for totality. She will also talk about what kinds of views can be seen and what effects can be noticed during different types of eclipses

Vivian White is the Director of Free Choice Learning at the Astronomical Society of the Pacific where she administers two national programs for NASA. The Night Sky Network, a coalition of 400 amateur astronomy clubs across the US provides materials for public engagement as well as club benefits like monthly webinars with NASA scientists and articles for club newsletters. The Eclipse Ambassadors program partners amateur astronomers with college students to share the awe of eclipses with their communities.

Vivian White has been an astronomy educator with the Astronomical Society of the Pacific for the last decade. Her first book The Total Skywatchers Manual was released in September 2015

Her favorite things in the world are her family, travel, and clay.

Upcoming meetings:
October: Brian Kloppenborg, AAVSO
November: James Lowenthal Smith College
December: Tim Russ, Star Trek ActorJanuary: Robert Zubrin, PhD., The Mars Society
February: Angela Speck, PhDUniversity Texas at San Antonio
March: Tom Rathjen, NASA
April: David A Williams, PhD., Arizona St
May: TBA
June: Steven R Gullberg, PhD., U Oklahoma

September 15th Meeting will be In Person and on Zoom

The SLAS meeting for September 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.

Dobsonfest - Saturday, September 16, 4-9pm. See page 3!

SLAS Annual Star-B-Q - Saturday, October 7, 2-Mid See Page 2!

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President's Corner
by Jim Small

Vivian White is the speaker for this month! Long time friend of SLAS, she has been VERY supportive of us over the years! Can't wait to hear her talk Friday night!

The eclipse is HERE! (Well, almost). I finally have made my decision about traveling to see the Annular Eclipse on October 14. I'll be heading to Los Alamos with my sister Linda! I have a place to stay there as the leader for my virtual Quarknet group lives there and invited me to stay if I want. I still have to work on what I will be doing observation wise. My sister decided she wanted to go after seeing Don Ficken on channel 9 Living in St. Louis talk about the eclipses. Can't wait! Just wish I had more time to explore while I was down there.

I'm not saying September and October are busy for SLAS, but I had to reduce the font on the events page to fit in all the events on the page. We will be needing some serious volunteer hours from members willing to help out! Just look at the events page, see which events you can offer help with and be sure to RSVP for them through Night Sky Network. Instructions for doing so are on the events page. You just need to know your login for the site. If styou need help with volunteering, don't hesitate to contact anyone from SLAS. We can certainly get you started.

Reminder that we still have some telescopes for sale by SLAS. Check the website for a list.
I personally have some telescopes for sale.
1. Meade ETX 70 with goto hand controller and tripod $140
2. Nikon D700 full frame DSLR Will take ANY Nikon lens old or new. $300
3. Meade electronic focuser $40
4. Meade 6" ETX Light Switch SCT. Automatically locates stars in the sky and aligns itself, Includes tripod and accessories. $550 ($2200 new)

So get your equipment in order for the eclipse and don't forget to practice your setup so you will be ready when it takes place. Next month look for a nice report from the Okie-Tex Star Party that Mark Jones and Randy Harrison attended.

Sincerely,

Jim Small

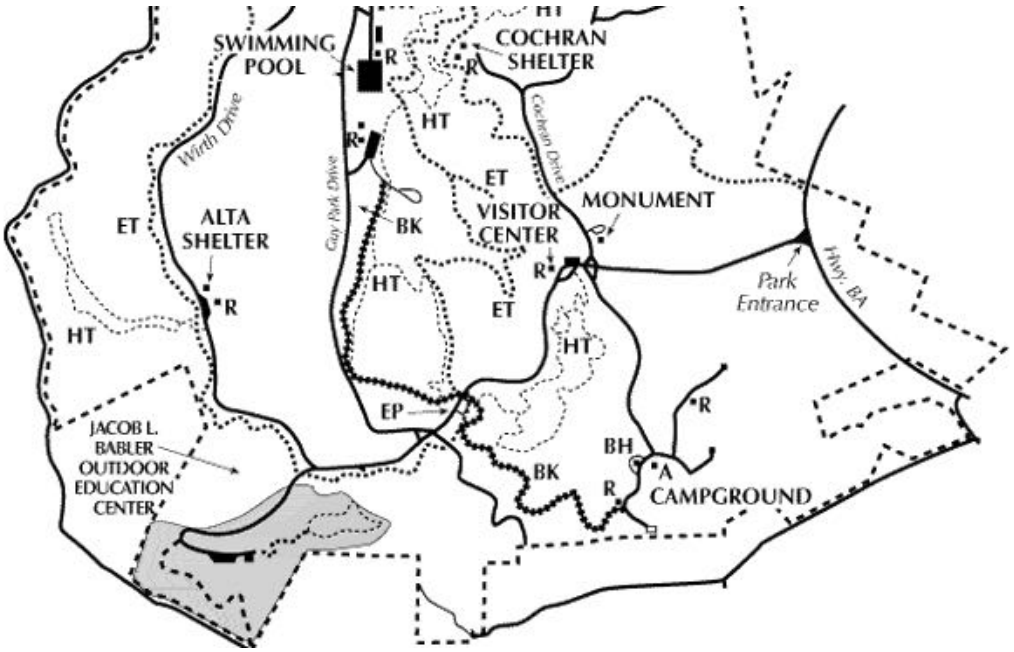
20th Annual SLAS Star-B-Q
Saturday, October 7, 2023
Alta Picnic Shelter

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

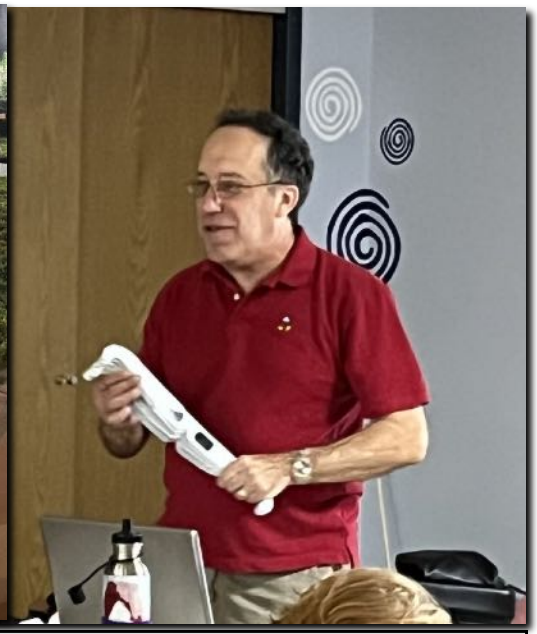
The Obrecht, Fitter and Woods awards must be SLAS members, the Schwartz and Cox awards are not restricted to SLAS. For the full form to nominate, including definitions of awards, see this link: **https://www.slasonline.org/files/award/SLASAwardNominationForm.doc** The deadline for nominations is Sep 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 September

Russ	Bacon
Mark	Bremer
William F.	Davis
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

SLAS Memberships Expiring in October

David	Adkins
Bob	Beebe
Laureen	Caliman
Larry W.	Campbell
Wayne & Nancy	Clark
Daniel L.	Corso
Jennifer	Dove
John	Duchek
Donald E.	Ficken
Murray	Fishman
Pete	Gask
David	Goldstein
Joe & Margie	Marcus
Tanner	Marti
Rick	Nichols
Anthony	Russo



Above and left: Columbia Illinois Library star party pics from Thursday, August 24. About 50 folks attended. Patrons enjoyed the outdoor viewing despite the heat. Joe and Rich were the last to give up as they watched the occultion of Antares and the Moon. **Below:** Photos from Bridgeton Trails branch of St Louis County Library. Don Ficken explained about eclipses and Frank Mack explains how to use a library telescope. **Bottom Left**: Richard Jennings explains how to use the finder on a library telescope. **Bottom Center:** Don Ficken talks to a couple about using the telescope. **Bottom right:** Frank Mack supervises kids pointing the telescope to the Moon.

Above: Mug shot for the panel discussion of the JWST results after 1 year of operation. From left to right, Dr. Pamela Gay, Maryanne Angliongto, Jefferson College, Keith Reece, college student, Megan Dickson, college student, Mark Karsh, high school student.

Far left: A decent crowd for the in person meeting.

Left: The Mark Karsh answers questions about the image Mark Jones presented to the audience.

Below left: Eric Gustofson from the St. Louis Science Center presents a view through the telescope during First Friday.

Below center: Cook Feldman presents an Ha view of the Sun through his PST on First Friday.

Below right: Cook and Carol Feldman relax while talking to patrons at First Friday.

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, Randy Harrison, Dennis Latinette, Brent Buch, Mark Jones, Bill Winningham, Jeremiah Taylor, Will Snyder b. Open Meeting: 7:02pm c. Approval of last month's meeting minutes. Motion by Mark second by Randy minutes were approved d. Next Board meeting date: Sep 7, Oct 5, Nov 2, Dec 7 Meetings will be via Zoom until further notice:
SLSC Will Snyder SLSC Update SLSC will be hosting event at Planetarium. They can do a live feed using YouTube channel. Login information to stream from laptop and camera. Dry run August 20 or 27, Sep 3rd. Twitch might be available for Jim Small to remote in from centerline. Action: Mark give new quarter cards to Jim for Cook for Solar Sunday. Cook already has eclipse glasses Action: Mark and Randy to meet with Will at solar Sunday Aug 20 with 27 backup date to dry-run camera/laptop/Youtube. Mark to provide camera, filter and adapter. 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 - 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 front 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**: JWST Panel. Wash U b. Special Awards needed: no

c. Speaker Press Release: Action: Mark needs to send press release info to Rich H. d. Special Business – none e. A101 – Megan Dickson presentation about research at UMSL Other speaker options - NASA Museum & Informal Education Alliance. **Action: Jim to provide camera and microphones for JWST panel discussion, USB extension and tripod. Action: Mark to bring tables and chairs. Bring down chairs from upper landing. Action: Jim and Mark to bring JWST materials to pass out at meeting**

f. **Hospitality:** a. Budget – 2023 Budget $330, balance $262 **Action: Larry Campbell to purchase special cake for August SLAS meeting, JWST theme**

3. SLAS Financial Report as of June 30 a. Balance Sheet: total assets $86,930; Savings $43,136 b. Profit/Loss report: Income: $3788; Net Loss $3563, primarily due to depreciation. c. Annual Budget meetings: not until September 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. Bill suggests changing to Commerce Bank for CDs.**

4. Speaker Committee a. Budget – 2023 Budget $400, Balance $57.36 b. Upcoming speakers:

SLAS Monthly Meeting Presentations 2023

Month	Name	Topic	Sponsor
Aug-2023	Panel	JWST 1st Anniversary Results	SLAS, SLSC
15-Sep-2023	TBA	Oct 14th Solar Eclipse	
20-Oct-2023	Brian Kloppenborg	Citizen Science, Variable Stars, and the AAVSO	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 mail $100 honorarium to Harry Krantz 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. Action: Brad to submit June doorprizes expenses**

5. Membership Initiatives a. Budget – 2023 Budget $600, Balance $402 b. Welcome 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 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: SLAS membership report showing 225 members at the end of July 2023. Membership has declined by 25 members this year with all member categories (adult, family, youth) showing decline. We have fewer new members and lower member retention compared to last year. 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 **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**

7. Outreach - a. Budget – 2023 Budget $500, Balance $500 b. Member Training Program Status: c. Purchase of T-shirts for volunteers completed training d. Purchase of lawn signs: Put signage for Stacy Park into 2024 budget. **Action: Mark to get paper yard signs to Ken Levy for Stacy Park. Grant Martin is fixing lighted SLAS sign then going Stacy park for the 8/24/2023 event.** e. Upcoming outreach events: Indoor programming for First Friday at the SLSC and planning for STEM programs
Francis Park - Aug 23, Sep 20, and Oct 18
Tower Grove Park - Sep 30, Oct 21. Special Event - Astronomy Festival Sep 30, 2-5pm
JCO – Aug 6, Sep 3, Oct 1, 8, 15, 22, 29, 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:

9. New 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 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 maintenance event August 12, 10 scopes.
E. SLAS Social Events a. Budget – 2023 Budget $365, Balance $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, Balance $486 b. Quarter cards – new card received
G. Loaner scope Program a. Budget – 2023 Budget $ 100, Balance $0 b. New donations: 3" Celetron with broken dovetail c. Replacement Parts for the LPTs d. Items for sale several:
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, balance $420 b. Other – Jim did purchase $80 on books signed by Fred Espenak Action: Jim to give books to Mark for logging into library listing
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
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 Sep 1st**
P. Dark Site
Q. Observing Programs
R. Star Parties Donation:

11. Closing Activities: Motion to adjourn Randy second by Dennis. Meeting adjourned 10:16pm

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

	Jan - Aug 23	Budget	$ Over Bud...
Ordinary Income/Expense			
Income			
Events Income	390.00		390.00
Magazine Subscription	1,644.65	2,019.70	(375.05)
Membership Dues	3,070.00	3,180.00	(110.00)
Total Income	5,104.65	5,199.70	(95.05)
Cost of Goods Sold			
Magazine Subscriptions			
Astronomy Magazine Cost	740.29	745.15	(4.86)
Sky & Telescope Cost	1,052.25	1,291.50	(239.25)
Total Magazine Subscriptio...	1,792.54	2,036.65	(244.11)
Merchandise	242.92	650.00	(407.08)
Total COGS	2,035.46	2,686.65	(651.19)
Gross Profit	3,069.19	2,513.05	556.14
Expense			
1-Programs & Events	1,143.41	2,195.30	(1,051.89)
2-Newsletter	489.92	375.00	114.92
3-Library expense		200.00	(200.00)
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	2,513.98	2,565.20	(51.22)
Jefferson College Observat...		5,000.00	(5,000.00)
Total Expense	6,773.47	13,435.50	(6,662.03)
Net Ordinary Income	(3,704.28)	(10,922.45)	7,218.17
Other Income/Expense			
Other Income			
Donations	721.52		721.52
Eclipse Escrow Receipts	70.00		
Interest Income	15.95	35.00	(19.05)
LTP Receipts	5,350.09		5,350.09
Total Other Income	6,157.56	35.00	6,122.56
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	872.40	35.00	837.40
Net Income	(2,831.88)	(10,887.45)	8,055.57

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

	Dec 31, 22	Aug 31, 23
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	16,660.91	11,933.22
Deposit, Certificate of	15,976.91	15,990.06
Library Telescope Escrow	2,459.77	1,897.67
PayPal	494.39	71.79
Savings - First Bank	41,148.96	43,136.76
SLAS Eclipse Conference Escr...	0.00	3,152.12
Total Checking/Savings	76,740.94	76,181.62
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	77,174.87
Fixed Assets	12,460.24	10,245.04
TOTAL ASSETS	90,251.79	87,419.91
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	(2,831.88)
Total Equity	90,251.79	87,419.91
TOTAL LIABILITIES & EQUITY	90,251.79	87,419.91

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: 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 9/20, 1018

Aim for the Stars Public events held on 1st Sundays at the Jefferson College Observatory and Patio. 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
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: 10/13, 10/27, 11/3, 11/10, 11/30, 12/8, 1/12, 1/26, 2/9, 2/23, 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

	September
15 Fri	SLAS Regular meeting
16 Sat	Dobsonfest hosted by ASEM
16 Sat	SLAS Dark Sky at Danville
16 Sat	Jefferson College Observing
17 Sun	SLSC Solar Public
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
22 Fri	Promise Christian Academy
23 Sat	Stacy Park Stargazing
23 Sat	Celebrate Wildwood
23 Sat	Beaumont Scout
24 Sun	SLSC Solar Public
26 Tue	Manchester Parks Fussner
29 Fri	Starry Nights at Stacy Park
30 Sat	Astronomy Festival Tower Grove
30 Sat	Tower Grove Stargazing
	October
1 Sun	SLSC Solar Public
1 Sun	Aim For the Stars at JCO
5 Thur	SLAS Board Meeting
6 Fri	Solar Viewing at JCO
6 Fri	First Friday TV at SLSC
7 Sat	20th Annual SLAS Star-B-Q
7 Sat	Night Skies Over Babler
13 Fri	YMCA Camp Lakewood
14 Sat	Eclipse Viewing at McDonnell Planetarium
14 Sat	Eclipse Viewing at JCO
14 Sat	Arch Eclipse Viewing
15 Sun	Aim for the Stars at JCO
17 Tue	Mo Baptist University
18 Wed	Francis Park
18 Wed	Aviation Explorer Scouts
20 Fri	Blackburn Park
20 Fri	SLAS Regular Meeting
21 Sat	American Legion Post 444
21 Sat	Tower Grove Stargazing
21 Sat	Stacy Park Stargazing
21 Sat	Scouts at Babler
22 Sun	Aim for the Stars at JCO
23 Mon	Central Library
25 Wed	Star Party at Buder
26 Thur	SLAS New Member Zoom
27 Fri	Stargazing at the Arch
28 Sat	River Trails NOVA Night at JCO

For other events, watch the calendar on the website. Virtual stargazing events and other

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

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Devoted to the Interest and Advancement of the Science of Astronomy

ST. LOUIS ASTRONOMICAL SOCIETY

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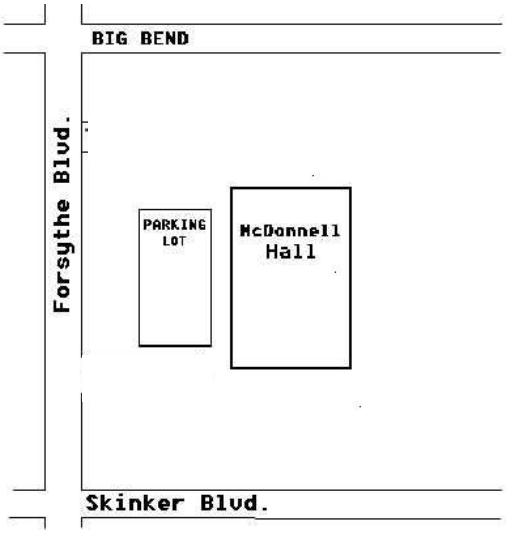
Who We Are and What We Do

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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