THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

VOLUME 34, Issue 12
December, 2024

Postcards From the Moon
by
Robert Reeves

Robert Reeves, amateur astronomer and lunar photographer, will be featured at the December meeting of the Saint Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, December 20, in McDonnell Hall, Room 162, on the Danforth campus of Washington University. McDonnell Hall is accessible from Forsyth Boulevard via Tolman Way. The event will also be available via Zoom online conference. For parking and the Zoom link, please see below.

Mr. Reeves will present a review of the evolution of the Moon and its geology so that people can "become friends with and understand the Moon as seen through a telescope." Most library branches in the St. Louis Metro area have telescopes available for checkout to adult library card holders. The Moon is the best target for telescope viewing by the general public, especially from urban and suburban locations.

Robert Reeves has been a devoted lunar photographer since 1959. He photographs the Moon from his Perspective Observatory nestled in central Texas. Mr. Reeves has published over 250 magazine articles and 250 newspaper columns about astronomy, in a number of nationally circulated popular science magazines. In 2000, Robert published *Wide-Field Astrophotography*, followed by *Introduction to Digital Astrophotography* in 2005 and Introduction to Webcam Astrophotography in 2006. Robert's latest book, *Exploring the Moon with Robert Reeves*, was released in August of 2023.

Upcoming meetings:
January 2025 Bhupal Dev, PhD Finding New Physics in Debris from Colliding Neutron Stars Wash U
February 2025 K Michael Malolepszy Probing the Sub-Microwave Universe Part III SLAS
March 2025 Tom Rathjen What's Happening in Human Space Flight NASA
April 2025 Avi Loeb, PhD. The Search for Extra-Terrestrial Life and Our Future in the Stars Harvard U
May 2025 SLAS Panel New Digital Era in Astronomy SLAS Members
September 2025 Tansu Daylan The Roman Space Telescope:"The Roman View of Strong Lenses" WashU
October 2025 Paul Byrne, PhD Venus Wash U

Meeting Room Back to Normal: McDonnell Hall 162!
December 20 Meeting will be In Person and Online!

The meeting will begin at **7:30** PM Friday, December 20 in **McDonnell Hall 162** on the Danforth campus of Washington University. 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 per the link here:
To join with computer or smartphone: use the below link.
Topic: SLAS Regular Meeting
Time: Dec 20, 2024 07:00 PM Central Time (US and Canada)

Join Zoom Meeting:
https://us02web.zoom.us/j/81846859229?pwd=jgnygSk6E1YkEnX58qNlOeDSkGL4La.1

Remember, the zoom room opens at 7, meeting starts at 7:30pm

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President's Corner
by
Jim Small

It's been a BUSY month! We settled on the recipients of the special recognition awards for the year. The plaques are ready to go and they will be presented tonight at the meeting. Congratulations to the winners! They will be announced at the meeting. More info on the winners next month.

This month we will have Robert Reeves, internationally known lunar photographer and Moon expert. This should be a terrific presentation and represents a very nice addition to the list of speakers for the year!! Robert has several books out. Check the front page article for a list.

This will be the last time for attendance prizes, so make sure you attend the meeting. Bradley has some nice prizes to give away. There is a picture elsewhere in the newsletter.

We will be voting on the budget for next year. We made one change from last month where we added a $400 donation to the national Library Telescope organization. This is similar to our yearly donation to the IDA. St Louis is a leader in the global push for library telescopes. See Don Ficken's article about that. I ordered the RASC handbook and I will order the Guy Ottewell calendar after Jan 1 for the library. Great Courses is discontinuing DVD's so we took advantage of cheaper prices to get a few nice titles you might be interested in checking out. I'll be watching some of them myself!

Gary Kronk had a 70's vintage C-14 that he sold us for $100. It needs a bar to be able to connect it with a mount AND we could use a beefy mount that is capable of holding it. If you have such a mount that you are willing to part with for a good deal, give me or Mark Jones a call. Gary waa also generous enough to give us 5 copies of some of his terrific books about comets.

Lawrence Dpepke passed away December 2 at the age of 83. He was a long time member of SLAS. See the article later in the newsletter. If you can relate any stories about Lawrence (during outreach, etc) it would be great to have some of those.

MSRAL is set in case you weren't aware. It will be held in Little Rock from June 13-15. ALCON will be held June 25-28 at BRYCE CANYON!! If you have never experienced the dark skies of the western National Parks, you definitely have to check it out!! Rainbow Point is amazing. Rooms will be at Rubys Inn at the national park. Sooo… prepare to do a little traveling in June! Works perfect for me, our meeting is on the weekend in between! Maybe I'll get to do all three!

Clear Skies,

Jim Small

SLAS Memberships Expiring in December

Opal Andrews
Mike Boelter
Bob Brazzle
Maria Brown
Brent A. Buch
George Cadwallader
Mackenzie Conner
David Ebers
Mark Fedde
Stephen Kelly
Charles Laughton
Jamie Lyon
Johnny Pfifer
Earl Schultz & Family
Brittany Sherman
Judy Tippett
James H. Wells
Alan Whitson

SLAS Memberships Expiring in January

Doug Blum
James Brochtrup
Robert Drzymala
George Dube
Thomas Duncan
Dale&Gaylene Engelbrecht
Greg A. Gaines
Mike Hays
Richard W. Heuermann
Michael Hoke
Catherine A. Hooper
Jamil Jackson
Tom Keutzer
Ken Kibort
Dennis Meyer
Rosanne Naunheim
John W. Schwartz
Kristin Smith
James Timper

2024 SLAS Membership Anniversary Recognition

SLAS has 3 recognition programs, where on a yearly basis we present awards to SLAS members. The programs are as follows:

- Service Anniversary recognition. These are awarded typically in November each year to people that have continuous membership in SLAS. We present anniversary pins and certificates to members that have passed 5-years increments, such as 5, 10, 15-year anniversaries, etc.
- Outreach Volunteer recognition. This program acknowledges the many SLAS members who participate in our astronomy outreach events throughout the year. Night Sky Network, NASA and ASP sponsor this program and SLAS buys pins and certificates to present to members that meet the established criteria. These awards are typically presented in January or February.
- Special Recognition Awards. Awards are presented in 5 categories. These are typically presented in December or January. Go to our website for more details by searching on special awards.

For 2024, 31 members will be presented with pins for anniversaries ranging from 5 to 70 years. 70 years: Jim Melka; 50 years: Mark Jones; 40 years: Mark Fedde, Thomas Ryan; 30 years: Rick Menendez; 20 years: John Schwartz, Dan Howard, Bill Breeden, Jim Twellman, John Duchek, Daniel Corso; 15 years: Larry Campbell, Brent Buch, Earl Schultz; 10 years: Amy White, John Boncek, Vicky Boncek, Bill Winningham, Eric Kovach, Don Mason, Greg Lunte, Dave Ebers; 5 years: Joseph Barteau, Mary Barteau, David Adkins, Tracy Whitehead, Russ Bacon, Larry Meyer, Jennifer Dove, Randy Harrison

Thank you to all members this year and we can't wait until 2025 when we will recognize another group of members for achieving their anniversaries.

Library Telescope Program Expands as a Non-profit St. Louis Leads Global LTP Effort

by

Don Ficken

The Library Telescope Program (LTP), the popular program that places telescopes into libraries for checkout like a book, entered troubled waters in the last few months of 2024.
Orion Telescopes, the primary supplier of the 4.5" Starblast Tabletop Telescope used by LTP since its founding by the New Hampshire Astronomical Society in 2008, unexpectedly closed its doors. Sky & Telescope Magazine reported the demise of Orion Telescopes in a news release issued in September 2024.

In another unexpected turn of events, Celestron announced that its Zhumell line of telescopes in the USA was being discontinued. LTP often used the Zhumell Z114 tabletop telescope as a backup to the Orion Starblast.

Since the New Hampshire Astronomical Society started the program in 2008, LTP has expanded to over 1,000 libraries in the USA, Canada, and Europe (see world map). The St. Louis Astronomical Society adopted the program in 2014, which quickly became popular with libraries and patrons. Our metro area program, which includes libraries in Missouri and Illinois, has grown to be the largest metro LTP program in the world, with over 200 telescopes and 140 binoculars.

The loss of LTP's telescope suppliers raised alarms with libraries and volunteers. The continued growth of this grassroots program hinged on finding a replacement telescope swiftly. Without a timely solution, the program risked a severe slowdown or even a fatal setback.

Yogi Berra, the St. Louis baseball legend, once said, "When you come to a fork in the road, take it."

Rather than looking for a simple replacement for the existing telescope, we decided to aim higher. Could we get a telescope built to our specifications with all the modifications already made? Could we secure access to parts? Could we get help with promoting the program internationally and creating educational videos for patrons, staff, and volunteers? Could we keep the telescope affordable?

After reaching out to industry suppliers, High Point Scientific, a company headquartered in New Jersey offering high-quality telescopes and astrophotography equipment at low prices without compromising on customer service, agreed to sign an agreement addressing our needs. This was exciting! However, we faced a major hurdle —we didn't have a legal entity to sign the contract.

Husch Blackwell, a major law firm with offices in St. Louis and Kansas City, agreed to donate their services to create a 501(c)(3) nonprofit. As of October 10, 2024, a nonprofit called the "Library Telescope Program" was incorporated in Missouri. An application with the IRS to become an official 501(c)(3) is pending, with approval expected early next year. Press releases have been issued by LTP about the new entity (view press release) and agreement with High Point Scientific (view press release).

But we are not out of the woods yet. Our legal entity does not have any cash to operate. Nor can we accept donations from anywhere except Missouri until we file as a charitable institution in any state where we might receive a donation. In summary, we need $3,000 in "seed money" to open a bank account for our new entity and to establish a foundation that can legally accept donations from outside Missouri. Once we can legally accept donations from all states, High Point Scientific has agreed to send regular appeals to its extensive customer base, encouraging donations that will help us better support and expand the Library Telescope Program across the globe.

If you are willing to donate, please write a check payable to "Library Telescope Program" and send it to my attention at 13034 Barrett Crossing CT, Kirkwood, MO, 63122. We will gladly accept donations from outside Missouri but there may be a small delay in depositing the check as we must file as charitable institution in that state before depositing the check, otherwise we are subject to fines. Unfortunately, we cannot accept credit cards or other forms of payment until we get a bank account open and credit card processing capabilities established.

Please visit the LTP website (LibraryTelescope.org) and Facebook Page (Facebook.com/librarytelescope) to learn more about our program and the many changes underway. While visiting the Library Telescope Program website, please register to receive newsletter updates on our progress.

The St. Louis Astronomical Society (view LTP program) spearheaded the program's start in St. Louis with amazing results. Since then, the Astronomical Society of Eastern Missouri, Riverbend Astronomical Society, and Eastern Dark Sky Observers have joined the effort with remarkable results. St. Louis can be proud of our accomplishments!

I am honored to have worked closely with the four metro area astronomy clubs to introduce and grow the program in St. Louis, and to have played a small part in leading the international effort since 2020. The support provided by the St. Louis Astronomical Society and its members has been amazing. Thank you!

Don Ficken
President and Executive Director
Library Telescope Program
Email: dficken@librarytelescope.org

Assumption Summary – 2025
St. Louis Astronomical Society Annual Budget

Work began on the 2025 budget after the financial close for August 2023. The year-to-date information is therefore through August 31, 2024 with an estimated projection of activity from September 1, 2024 through December 31, 2024.

The budget information was assembled partially based on assumptions developed from the August 2023 year to date actual in areas such as membership information available at that time. The balances of the budgetary items were prepared on a line-by-line basis by the individual committees and committee chairpersons.

Revenue / Income: The primary source of Revenue for the Society stems from membership fees that are assessed on an annual basis that is based on the member's individual anniversary date. The current fee structure was adopted in 2004 where the "Family Membership" was created and set at an annual rate of $40.00 per year. At the same time, the fees for the Youth membership were decreased from $15.00 to $10.00 per year.

The total revenue from the membership fees for 2025 is based on:

Regular (Adult) Memberships	141 @ $25.00/year	$3,525
Youth Memberships	7@ $10.00/year	70
Family Memberships	41@ $40.00/year	1,640

The Society does receive donations for the outreach activities, these donations have been ignored for the purpose of the 2025 budget due to the uncertainty.

As indicated in the budget, this will provide operating revenues in the total of $5,235 for 2025. The actual revenues that will be realized during the calendar year may be different due to any changes in the actual membership numbers.

Operating Expenses: These are expenses that are incurred to run the Society on a month-to-month basis to provide goods and services to the membership. Some of the expense categories are required to meet specific obligations that enable Society to function as an organization. The balance of the expense categories are considered discretionary and may be adjusted accordingly. The items that will be discussed in detail are the discretionary items.

Newsletter Expense: The newsletter expense consists of $450 for paper, toner and other supplies and $250 for postage.

Events The Homemade Fest budget is unchanged at $150. This budget is primarily used to purchase refreshments, plates, plasticware and door prizes. SLAS hopes to continue getting the meeting room free of charge from the Science Center or the Kirkwood Community Center. Kirkwood waived the fee in the past because of our hosting telescope viewing at Kirkwood Park at least twice a year.

The Star-B-Que budget was increased from $240 to $500. This event will again be member potluck with SLAS providing the meat, paper goods, and trivia quiz prizes. For 2025 the budget also includes the cost of having the meat catered where in prior years SLAS members cooked the meat onsite. SLAS hopes to continue getting the picnic pavilion free of charge. This is normally an $80 charge, but Babler has waived the fee because of our hosting Night Skies Over Babler twice a year.

The members in attendance will be asked to provide items as with the Homemade Fest to complement the main course provided by SLAS. This will require that the membership provide their RSVP and number of attendees so the event can be planned accordingly.

Library Telescope Program: The SLAS Library Telescope program was launched into the St. Louis area on November 2014. In the 10 years since, the program has grown to one of the largest and most successful programs in the country. On all fronts, the library telescope program is demonstrating success. The LTP committee is not requesting any funds for 2025 as there are sufficient funds in the LTP Escrow to cover expected costs.

Meeting Expense: Meeting expense is comprised of Meeting Refreshments and Meeting Speaker Fees. The meeting refreshments are self-explanatory and have been budgeted at $480 which is an increase over the 2024 budget level of $360. The Meeting Speaker Fees are used primarily to present honorariums to guest speakers and occasionally to partially offset travel expenses. The speaker budget has ranged between $400 and $600 in recent years. The 2025 speaker budget will be $900, which includes expected hotel expenses for 2 speakers, a stipend ($100) for 1 to 2 graduate student speakers and the cost of mailing mugs or other gifts to speakers that present remotely.

Membership Initiatives: SLAS regularly holds "Welcome Aboard" meetings for new SLAS members. These meetings take place before the Monthly Meeting. New SLAS Members are given a SLAS Informational folder containing information about SLAS resources and other related Astronomy topics.

The budget for Membership Initiatives was lowered $600 to $200 for 2025. The main reason for the decrease is that Membership Initiatives is suspending the practice of awarding quarterly attendance and other prizes, until it can be determined if this is a cost effective way of retaining membership. The $200 budget will be used to promote other membership opportunities such as special event ticket raffles as has been done in past years. Please feel free to suggest your ideas for membership initiatives to Brad Waller at vicepresident@slasonline.org.

Membership Recognition: The membership recognition budget for 2025 is $650. This budget includes the cost for Night Sky Network pins and certificates, recognition of members for continuous membership in SLAS and for contributing time for other SLAS functions, including the annual award program. The budget includes the costs for the five annual awards that were made available beginning in 2020, including plates for the main award displays, individual plaques for award winners and associated mailing costs. A membership recognition committee was formed and an email address, recognition@slasonline.org was set up so that recommendations can be submitted to the committee.

Merchandise: The merchandise budget includes up to $100 for design/setup.

Library: Library expenses for 2025 includes approximately $100 for the purchases DVD's and books.

Loaner Scope Program: For 2025 the budget is $100 which is intended to cover miscellaneous repair cost. This amount does not include proceeds from the sale of excess loaner scope inventory, which will be reinvested into the loaner scope program.

JC Observatory: No upgrades or repairs are planned for 2025 for the observatory building or the 16" scope. There is a $200 budget for upgrades for the all-sky camera located at JC Observatory.

Outreach: The outreach budget for 2025 is $250. The budget includes $75 for the purchase of shirts for members who complete outreach training and participate in outreach events, handed out quarterly. The budget also includes $175 for the purchase of and additional A-frame sign.

Website/Technology: The budget for the website and internet related technology has increased from $750 to $1,000 for 2025. The budget includes approximately $260 for website hosting, $110 to maintain Group.IO (replacement for SLAS Dialogs), various web address licenses. In addition, the budget includes the cost of transition from Blue Domino to a new website host as Blue Domino is no longer meeting the Clubs needs. The new web host will be run in parallel for a period of time until all the necessary functions are confirmed to be running properly on the new host.

Zoom: The budget includes $200 to purchase a SLAS owned ZOOM account for virtual meetings and virtual sky tours.

Dark Sky: SLAS will donate $400 to the International Dark Sky Association of Missouri to help support their operating costs.

Nation Library Telescope Program: SLAS will donate $400 to the national Library Telescope Program, incorporated as a nonprofit organization in the State of Missouri to help support their start up and operating costs.

Admin Expense: Administrative expenses consist of the corporate filing, office supplies, banking fees, PayPal fees and postage for renewal notices.

SLAS Brochures: The brochure expense consists of $100 for paper and toner and $600 for "Quarter Card" handouts.

Summary: The Board and participating committee members have adjusted several budget items for 2025. The budget includes the addition of a Zoom license that will allow SLAS to host and record virtual meetings. Note up until now, Zoom meetings were conducted using SLAS member's Zoom accounts. Expected revenue is up slightly for 2025 due to an increase in membership during the year. The net result is 2025 budget as presented equals a net loss from operations of $2,970, compared a budgeted net loss of $4,990 for the 2024 and a budgeted net loss of $8,605 for the 2023. Meeting the projected expenses for the upcoming year will require supplementing the operations from cash reserves to the extent donations and other revenue sources do not make up the shortfall. All attempts have been made during this process to continue to provide valued programs for the membership.

If you have questions about the amounts presented in this budget, please direct them either to me or the relevant committee chairs.

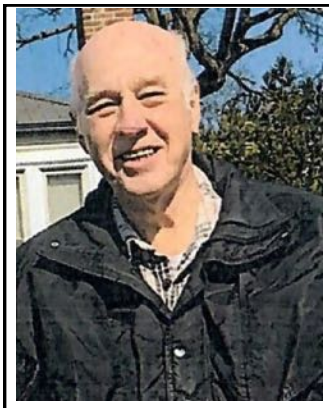
Respectfully,
Bill Winningham, Treasurer

ST. LOUIS ASTRONOMICAL SOCIETY
PRELIMINARY OPERATING BUDGET - 2025

	Actual	Projection		Budgeted			
	Year to Date	Sept-24 to	Year to date	Annual	Annual	Annual	Annual
	Oct-24	Dec-24	Dec-24	2022	2023	2024	2025
Income							
Magazine Subscription							
Total Magazine Subscription	$ 1,998.20	$ 653.20	$ 2,061.38	$ 1,338.90	$ 1,338.90	$ 1,338.90	$ -
Membership Dues	$ 4,430.00	$ 640.00	$ 5,070.00	$ 5,600.00	$ 5,630.00	$ 5,025.00	$ 5,235.00
St. Louis County Library Events				-	-	-	
Merchandise Sales		-					
Total Income	$ 6,428.20	$ 1,293.20	$ 7,131.38	$ 6,938.90	$ 6,968.90	$ 6,363.90	$ 5,235.00
Cost of Goods Sold							
Total Magazine Subscriptions	$ 1,342.69	$ 718.69	$ 2,061.38	$ 1,338.90	$ 1,338.90	$ 1,338.90	$ -
Merchandise	-						
Total Cost of Goods Sold	$ 1,342.69	$ 718.69	$ 2,061.38	$ 1,338.90	$ 1,338.90	$ 1,338.90	$ -
Gross Profit	$ 5,085.51	$ 574.51	$ 5,070.00	$ 5,600.00	$ 5,630.00	$ 5,025.00	$ 5,235.00
Operating Expense							
Programs & Events							
Home Made Fest	172.38	-	172.38	100.00	125.00	150.00	150.00
Star BBQ Expense	237.85	-	237.85	200.00	240.00	240.00	500.00
Library Scope Program Expense	-	-	-	300.00	-	-	-
Outreach	250.10	100.00	350.10	620.00	500.00	500.00	275.00
Meeting Expenses							
Meeting Refreshments	283.10	150.00	433.10	360.00	360.00	360.00	480.00
Meeting Speaker Fees	834.01	25.00	859.01	400.00	400.00	600.00	900.00
Total Meeting Expenses	$ 1,117.11	$ 175.00	$ 1,292.11	$ 760.00	$ 760.00	$ 960.00	
Membership Initiatives	$ 449.00	150.00	$ 599.00	$ 500.00	$ 600.00	$ 600.00	$ 200.00
Merchandise			-	650.00	650.00	100.00	100.00
Membership Recognition	44.00	300.00	344.00	550.00	500.00	500.00	650.00
Programs & Events	$ 2,270.44	$ 725.00	$ 2,995.44	$ 3,680.00	$ 3,375.00	$ 3,050.00	$ 3,255.00
Newsletter (Postage only pre 2019)	$ 213.50	$ -	$ 213.50	$ 600.00	$ 600.00	$ 600.00	$ 700.00
Newsletter Printing	434.51	-	434.51				
Total Newsletter	$ 648.01	$ -	$ 648.01	$ 600.00	$ 600.00	$ 600.00	$ 700.00
Library expense	$ -	$ 100.00	$ 100.00	$ 500.00	$ 500.00	$ 200.00	$ 100.00
Astronomical League Dues	1,228.00	-	1,228.00	955.00	1,200.00	1,070.00	1,300.00
Dark Sky Association	400.00	-	400.00	400.00	400.00	400.00	400.00
Loaner Scopes	141.97	-	141.97	100.00	100.00	100.00	100.00
Observatory Upgrade	179.87		179.87		5,000.00	1,500.00	200.00
Insurance	1,163.09	-	1,163.09	1,050.00	1,150.00	1,165.00	1,165.00
Website	667.20	-	667.20	750.00	750.00	750.00	1,200.00
Administrative Expenses							
Corporate Filings	20.65	-	20.65	12.00	-	20.00	-
Office Supplies	-	-	-	100.00	100.00	100.00	100.00
Banking Fees	-	30.00	30.00	30.00	30.00	30.00	30.00
PayPal Fees	88.80	20.00	108.80	120.00	180.00	180.00	180.00
Postage	13.60	65.00	78.60	250.00	250.00	250.00	275.00
Printing / Copying Expense (combined 2015)	-		-				
Brochures	113.50	113.50	227.00	600.00	600.00	600.00	700.00
Administrative Expenses	$ 236.55	$ 228.50	$ 465.05	$ 1,112.00	$ 1,160.00	$ 1,180.00	$ 1,285.00
Total Operating Expense	$ 6,935.13	$ 1,053.50	$ 7,988.63	$ 9,147.00	$ 14,235.00	$ 10,015.00	$ 9,705.00
Net Income/(Loss) From Operations	**$ (1,849.62)**	**$ (478.99)**	**$ (2,918.63)**	**$ (3,547.00)**	**$ (8,605.00)**	**$ (4,990.00)**	**$ (4,470.00)**
Other Income / Expense							
Other Income	1,803.59	-	1,803.59				
Donations							
SLAS Club Members	5.00	-	5.00				
Donations - Other	940.00		940.00				
Total Donations	$ 945.00	$ -	$ 945.00	$ -	$ -	$ -	
Interest Income	$ 1,198.53	$ 250.00	$ 1,448.53	$ 50.00	$ 50.00	$ 50.00	$ 1,500.00
Non-Operating Income (Astro Mag Award)			-				
Total Other Income	$ 3,947.12	$ 250.00	$ 4,197.12	$ 50.00	$ 50.00	$ 50.00	$ 1,500.00

ST. LOUIS ASTRONOMICAL SOCIETY
PRELIMINARY OPERATING BUDGET - 2025

	Actual	Projection		Budgeted			
	Year to Date	Sept-24 to	Year to date	Annual	Annual	Annual	Annual
	Oct-24	Dec-24	Dec-24	2022	2023	2024	2025
Other Expense							
Physical Inventory Adjustment	$ -		$ -				
Astro Mag Award Disbursements	-	$ -	-				
Depreciation Expense (JC Scope and Dome)	$ 2,769.00	$ 553.80	3,322.80	3,200.00	2,492.06	2,492.06	2,492.06
Total Other Expense	$ 2,769.00	$ 553.80	$ 3,322.80	$ 3,200.00	$ 2,492.06	$ 2,492.06	$ 2,492.06
Net Other Income / (Expense)	$ 1,178.12	$ (303.80)	$ (929.27)	$ (3,150.00)	$ (2,442.06)	$ (2,442.06)	$ (992.06)
Net Income / (Loss)**	**$ (671.50)**	**$ (782.79)**	**$ (3,847.90)**	**$ (6,697.00)**	**$ (11,047.06)**	**$ (7,432.06)**	**$ (5,462.06)**
Required versus Discretionary Spending							
Gross Profit	$ 6,263.63	$ 574.51	$ 5,070.00	$ 5,650.00	$ 5,680.00	$ 5,075.00	$ 6,735.00
Required Expenses							
Newsletter (postage only pre 2019)	$ 213.50	$ 300.00	$ 513.50	$ 600.00	$ 600.00	$ 600.00	$ 700.00
Astronomical League Dues	1,228.00	-	1,228.00	955.00	1,200.00	1,070.00	1,300.00
Insurance	1,163.09	-	1,163.09	1,050.00	1,150.00	1,165.00	1,165.00
Website/Zoom	667.20	-	667.20	750.00	750.00	750.00	1,200.00
Corporate Filings	20.65	-	20.65	12.00	-	20.00	-
Office Supplies	-	-	-	100.00	100.00	100.00	100.00
Banking Fees	-	30.00	30.00	30.00	30.00	30.00	30.00
PayPal Fees	88.80	20.00	108.80	120.00	180.00	180.00	180.00
Postage	13.60	65.00		250.00	250.00	250.00	275.00
Brochures		322.00		600.00	600.00	600.00	700.00
Printing / Copying Expense	-	-	-	-	-	-	-
	$ 3,394.84	$ 737.00	$ 3,731.24	$ 4,467.00	$ 4,860.00	$ 4,765.00	$ 5,650.00
Balance for Discretionary Items	**$ 2,868.79**	**$ (162.49)**	**$ 1,338.76**	**$ 1,183.00**	**$ 820.00**	**$ 310.00**	**$ 1,085.00**
Discretionary Spending							
Home Made Fest	172.38	-	172.38	100.00	125.00	150.00	150.00
Meeting Refreshments	283.10	150.00	433.10	360.00	360.00	360.00	480.00
Meeting Speaker Fees	834.01	25.00	859.01	400.00	400.00	600.00	900.00
Membership Initiatives	449.00	150.00	599.00	500.00	600.00	600.00	200.00
Merchandise	-	-	-	650.00	650.00	100.00	100.00
Membership Recognition	44.00	300.00	344.00	550.00	500.00	500.00	650.00
Astronomy Day/Outreach	-	-	-	620.00	500.00	500.00	275.00
Star-B-Q Expense	237.85	200.00	437.85	200.00	240.00	240.00	500.00
Library expense	-	100.00	100.00	500.00	500.00	200.00	100.00
Loaner Scopes	141.97	-	141.97	100.00	100.00	100.00	100.00
Administrative Expenses - Other				-	-	-	-
Observatory Upgrade					5,000.00	1,500.00	200.00
Library Scope Program Expense	-	-	-	300.00	-	-	-
Dark Sky Association				400.00	400.00	400.00	400.00
	$ 2,162.31	$ 925.00	$ 3,087.31	$ 4,680.00	$ 9,375.00	$ 5,250.00	$ 4,055.00
Net Income/(Loss) From Operations	**$ 706.48**	**$ (1,087.49)**	**$ (1,748.55)**	**$ (3,497.00)**	**$ (8,555.00)**	**$ (4,940.00)**	**$ (2,970.00)**
Physical Inventory Adjustment					500	0	0
2023/2024 Eclipse Escrow Funding				0	0	0	0
Library Telescope Program Escrow Funding				2,492.06	2,492.06	2,492.06	2,492.06
Depreciation Expense (JC Scope and Dome)				$ 2,492.06	$ 2,992.06	$ 2,492.06	$ 2,492.06
Total Other Expense							
				$ 6,340.03	**$ (1,687.50)**		
Actual Historical Net Income for prior years (excludes depreciation				(2022)	(2023)		
(excludes depreciation)							



Lawrence Doepke

August 17, 1941 - December 2, 2024

Beloved husband of the late Patricia Doepke (nee Proettz); loving father of Carolyn (Brian) Bartholomew and Sharon Doepke; dear grandfather of Erin Bartholomew; dear brother of Patricia (the late Don) Stadler and Joyce Olcott; dear uncle, brother-in-law, cousin and friend. Link for obituary: https://kutisfuneralhomes.com/doepke-lawrence-b-a/

Only at a SLAS Star Party... *by* Bradley Waller

Greetings SLAS Collective,

Have you ever had this happen at a Star Party?? A MARRIAGE PROPOSAL!!!! Well, sit right back a follow this tale.

The usual suspects were gathered at the Planetarium on 01 November 2024 for a First Friday. Randy "The Hair" Harrison, Will and Ben Winningham, Chris Hanson, Rick Menendez, and myself were at this Event. The Weather and skies were GREAT!!! The best thing about Fall/Winter Star Parties, it gets DARKER EARLIER! Yes, the Gang from the Science Center were there too: Will, Emma, and THE VIKING MAN!!!!

As you probably know, I am a Social Butterfly at Star Parties. The Night Sky had finally arrived and the Stars and Saturn were shining brightly. The Proposal happened so fast! One second, I am fluttering around to another Telescope, the next second, I hear the words I ONLY have heard on Rom-Coms. "Will you be my Wife?" At first, all I was trying to do was not to run into Jackson, the next was to hear Lexi say…"OF COURSE"!!!!

The rest of the evening went by. No more Proposals. If you are wondering, the Wedding Date: 07 February 2025. They are from Mt Vernon, IL. SLAS was the first to present the couple with their First Wedding Gift: A LAZER POINTER!!!!!

St. Louis Astronomical Society Executive Board Meeting Minutes 11/7/2024

1. Opening Activities: a. Attendance: Jim Small, Dennis Latinette, Mark Jones, Larry Campbell, Brad Waller, Bill Winningham, Brent Buch, Mike Boelter b. Open Meeting: 7:15pm c. Approval of last month's minutes. Larry motion to approve minutes, Jim seconded. Minutes approved d. Next Board meeting date: 12/5 Meetings will be via Zoom until further notice: **Standing Action: SLSC Report by Will Snyder.**

2. Upcoming General Membership meeting topics: a. Speaker: Robert Zubrin, PhD; The Case for Mars **Action: Mark to contact Zubrin via LinkedIn. Backup speaker Megan Dickson. Need to decide by Sunday night, 11-10-24.** b. Schedule room at Wash U. Back in McDonnell Hall. c. Who is recording meeting? Brent d. Special Awards needed Present 2025 Anniversary Awardse. Speaker Press Release and social media: f. Special Business – Review of Proposed 2025 Budget with membership g. Announcements: A101 for November – Mark Jones, How to select a good first telescope A101 for December – Brad Waller 2024 Star Trek Convention f. Hospitality: a. Budget – 2024 Budget $360, balance $17.

3. SLAS Financial Report thru Sep 2024 a. Balance Sheet: Assets: cash $76,532; total $83,983 b. Profit/Loss report: net loss $1980 vs budgeted loss of $6167, includes depreciation expense. Donations: $840; Interest YTD $1080. Action: Bill plans to file sales tax for eclipse glasses sales in October. Report: Bill working on this, need to setup account. c. Annual Budget meetings: First budget meeting held 9-22-24 and will be held Oct 13th at 4pm, Young's Restaurant. Bill waiting on Don feedback on LPT budget. Review proposed 2025 budget. We are deleting seasonal attendance prizes Add $85/year to support Joomla templates used on website Budget: expected revenues: $6735. Required expenses $4765 in 2024 to $5650 in 2025, largely to website rehost. Discretionary expenses: $3885 in 2025 vs $5250 in 2024: increased speaker fees, reduce membership initiatives from $600 to $200; reduced Outreach reduced from $500 to $275; Star-B-Q raised to $500. Total expenses for 2025 $9905 vs $10,015 in 2024. Board approved proposed budget. Action: Jim will send thread to Board about necessary steps to transfer website to new host. Jim to get pricing for new host to add to 2025 budget. Report: This was added to proposed budget action can be closed. d. State Corporate filings (due in August 2024). The 2024 Corporate Filing has been completed. This a 2-year filing, the next filing will be due in August of 2026. Federal Form 990 in May each year. e. Insurance: typically, due in May each year f. ALCOR Report Annual Astro League Dues: Annual Ballot for election of national officers. Approval of MSRAL By-Laws Action: Bill to send request to AL to change his email for sending future ALCOR emails. Report: Bill sent email request to AstroLeague. Action can be closed. Action: Jim to update website to put links to magazine subscriptions -https://www.slasonline.org/membership/join-slas and on printable form - https://www.slasonline.org/form.htm *Sky and Telescope New Subscriptions - https://skyandtelescope.dragonforms.com/loading.do?omedasite=SKY_ren_print_club Renewals - https://skyandtelescope.dragonforms.com/loading.do?omedasite=SKY_new_club Astronomy Magazine https://kalmbach.dragonforms.com/loading.do?omedasite=ASY_Club&pk=2PA4C1* Note: Mark added magazine links to Membership page. There is no good place to add the magazine links to the printable form. Action should be closed.

4. Speaker Committee If you are working on a Presenter, please keep Brad informed. Budget – 2024 Budget $600, Balance (-$234 increase from mug give-a-ways)b. Upcoming speakers:

SLAS Monthly Meeting Presentations 2024

Month	Name	Topic	Sponsor
15-Nov-24	Robert Zubrin	The Case for Mars	The Mars Society
20-Dec-24	Robert Reeves	Postcards from the Moon	Perspective Observatory
17-Jan-25	Bhupal Dev, PhD	Finding New Physics in Debris from Colliding Neutron Stars	Wash U
21-Feb-25	K Michael Malolepszy	Probing the Sub-Microwave Universe Part III	SLAS
21-Mar-25	Duncan Lorimer	TBA	West Virginia U
14-Apr-25	Avi Loeb, PhD.	The Search for Interstellar Objects of Technological Origin	Harvard University
16-May-25	SLAS Panel	New Digital Era in Astronomy	SLAS Members
20-Jun-25	Tom Rathjen	What's Happening in Human Space Flight	NASA
19-Sep-25	Tansu Daylan	The Roman Space Telescope: "The Roman View of Strong Lenses"	Wash U
17-Oct-25	Paul Byrne, PhD	Venus	Wash U

*Possible Live Speaker (Speaker budget may be used to pay for hotel room for speaker)

d.Topics of interest - e. Stipends f. Travel

(Continued on page 8)

5. Membership Initiatives a. Budget – 2024 Budget $600, Balance $190 **Standing Action: Mark Jones will send out member orientation materials when member joins. Also, schedule monthly member chat meetings are held via Zoom on the Thursday after the general meeting.**c. Raffles – not planned d. Attendance prizes – In-person and virtual members will be eligible for attendance prizes in 2024. Action: Jim and Brad to send poll to membership on whether to continue seasonal attendance prizes. Report: Brad sent email to membership 6 response were received in favor, Board has determined to drop attendance prizes from 2025 budget. Action closed.

6. Membership Recognition a. Total Budget 2024 Budget $500, Balance $456 b. NSN Outreach Awards: Awards made in Feb each year. Note from NSN - The 2024 pins have arrived! Coordinators: be on the lookout for an email containing the pin order form for this year, arriving this week - no later than November 8, 2024.c. Membership Report: **Action: Jim to contact NSN. NSN seems to have a dis-connect with User Preferences versus User Profile Notification Preferences. We need to be able to send all members notices for newsletters and important renewal information even if member has set preferences not to receive Group Notifications. Contact NSN about website changes that would allow us to do that. Report: Mark sent email to NSN on 9-24-24, waiting for response.** d. Member anniversary – Next event is November meeting. Action: Mark to generate anniversary certificates and send to Brad for printing. Report: Files made and Brad has printed certificates, action can be closed Action: Larry to buy member anniversary pins needed for November meeting. Report: pins on order, waiting for delivery. Action closed. **Action: Jim to buy one 70-year plaque needed for November Meeting** e. Special Award program - 1. Special Award Committee report: Chairman: Bill Biermann. 2. Special Award deadlines: Current Nomination deadline is Sept 1st 3. Nomination reviews: by October 1st. Meeting scheduled for 6:30pm Oct 16th
4. Award selection: selections made in November. Report final selection meeting held 10/24/2024. Awardees were selected for all 5 categories. Bill Biermann will send out announcement letters to each recipient in early November and presentations will be made at December SLAS meeting. **Action: Jim Small will have 5 plaques made for Special Awards and plates for cumulative plaque** 5. Awards presented at December meeting –

7. Outreach - a. Budget – 2024 Budget $500, Balance $250 b. Member Training Program Status: c. Purchase of T-shirts for volunteers completed training per budget: d. Purchase signs for outreach per budget: e. Upcoming outreach events: First Friday – 12/6 Solar Sunday – 11/17, 12/15 f. Awards/recognitions – g. NSN Outreach hours: Total Hours Reported in NSN: 1041 hours as of Nov 5, 2024

8. Old Business:

9. New Business Creating SLAS GoogleDrive Account for storing important files. Creating SLAS GoogleDrive Account for storing All-sky Camera files. Or alternative methods. 100GB account was $2/month, 2TB is $10/month. Concern about limit of 5 share accounts, should we try to use slasdialogs.groups.io or use slasonline.org website. DropBox account created for All-Sky Camera images. We still need backup location for critical SLAS files. Example Mark has 31Gb of SLAS files stored on his local computer, these could be moved to Googledrive to be accessed by other members.

10. Other Committee Reports: If needed

A. SLSC Business: a. First Friday actions – see above
Note from Will Snyder - The Science Center made the sudden decision to cancel First Fridays for 2025 only a day or two ago, so there are not any official plans in place. That said, I am already in talks with the powers that be to ensure monthly PTV happens at the Planetarium without the First Friday event in 2025. The day of the week may end up shifting, but I am confident we will be able to offer evening PTV on a monthly schedule. As soon as I get a little more information, I will reach out to you and the rest of the SLAS board to iron out scheduling. I doubt there will be much new information to share by your board meeting this week, but we should hopefully have something to share by your December board meeting. We had a nice crowd to look at Saturn last night for PTV, and SLAS was well represented. As you might have heard, we even had a couple get engaged at the telescopes!

B. SLCL Business a. Annual contract – No contract yet for 2024. b. Upcoming events –

C. Jefferson College Business: a. Committee Meeting report: next meeting scheduled for Nov 22 at 9 am. b. Upcoming Outreach Event: JCO –Nov 16 Report – Buz McCullough is working on integrating the Truman State All-Sky Camera and Photometer into the Jefferson College WIFI communications. Don Ficken has created a DropBox account to store all-sky images. username: dropbox@slasonline.org. Username and password will be shared by those needing access. When you login, it will send a 6-digit security code to the email address dropbox@slasonline.org. Don has set up this email to forward to personal email addresses of those needing access. Current DropBox account is Free trial with 2Gb until 11-17-2024. Could increase to 2 Tb for $10/month.

D. Library Telescope Committee a. Budget – 2024 Budget none requested, expenses will be covered by escrow balance of $844
b. Upcoming builds or maintenance events – Don and Mark will be modifying 5 telescopes for St Louis Public Library. c. Maintenance budget – none requested d. Mileage re-imbursement – see above
e. Promotional materials - none requested Report from Don Ficken:

UPDATE ON ZHUMELL Z114 The Library Telescope Program has signed a deal with High Point Scientific to produce a custom telescope for our program. The telescope will have the typical modifications already made (e.g., mirror collimation screws, zoom eyepiece added, camera bag, etc.) so that amateur astronomers will not need to make these changes. This will open up the program to new markets. HPS is working with the factory to get the telescope produced with availability expected by March 2025. If you are not aware, the Zhumell brand is being discontinued by Celestron. Recognizing that the new custom telescope will not be available until next year, High Point Scientific purchased the closeout stock of Zhumell Z114s from Celestron (92 telescopes) and will modify them to our specs as a transitional solution. We expect the modified Zhumell Z114's to be available for sale by the end of this month. Our standard modifications will be made to the telescope so that libraries can purchase an already modified telescope for direct shipment to them. The ZOOM eyepiece is 8-24mm. It is not Celestron but HPS says the quality is as good. The RDF will not be modified for a battery pack but has a top loading door. They will include 5 batteries with the telescope. The camera bag will likely be gray instead of black (black is unavailable in the timeframe needed). I am working with HPS on other details of the modifications and will share them with you as we get closer. HPS has not quoted final price but assures me that the price will be within the $350 price range as promised

E. SLAS Social Events a. Budget – 2024 Budget $390, Balance - $20.23 b. Homemade Fest - 2024 Budget $150. Balance -$22.38 c. Star-B-Q – 2024 Budget, $240, Balance $ 2.15
Other

F. SLAS Brochures a. Budget 2024 $600, Balance $140 b. Quarter cards – YTD 1500 cards printed.

G. Loaner scope Program a. Budget – 2024 Budget $100, Balance $42 b. New donations: c. Replacement Parts for the LTPs - d. Items for sale several:

H. SLAS Library a. Budget – 2024 Budget $200, balance $200

I. Merchandise Budget – 2024 Budget $100, balance $100 36 of the new coffee mug design are ready for sale to members. $10 each or two for $15

J. Telescope Making – Note from Jim Roe - Thinking about a telescope for Christmas? Or any other time, for that matter. We do not recommend commercially available telescopes that cost under, say, $200. This is because the mounts that come with them are typically very shaky making the telescope hard to use. BUT, we do recommend that you consider making your own quality telescope for about $100 cash outlay. Essentially, it is a kit that you can screw and glue together with a mirror set purchased online. But you make the kit! Most of the parts are 3D printed. We have a complete list of materials and needed print files at https://www.asemonline.org/telescope.../d114f900-telescope. If you don't have a 3D printer, ASEM members can check one out and receive guidance on how to build it yourself. This telescope can often be seen and tested at the regular Friday Night Open Houses at Broemmelsiek Park Astronomy site. For more information contact telescope.making@asemonline.org

K. Newsletter a. Budget 2024 $600, Balance -$17.50 (postage+toner)

L. Website - a. Budget 2024 $750, Balance $161.75 stlastro.com, .net, .org all domains forwarded to slasonline.org. Each cost about $38/year. Do we want to continue to pay for these? Currently renewed thru Oct 2025. Board agrees we should continue. Moved the following to Website on the agenda. We probably need to move to new web host that is using current protocols so we can run current version of Joomla. Since most of our backup content are our old videos, we might want to separate our videos from our website. BlueDomino does not have storage limit for our account, new hosts will probably have limits based on cost. Jim, Don and Brent are interested in working on website rehost. **Action: Brent to look into using YouTube for our video. Brent to report to Board about limitations and accessibility**

M. Social Media Platforms: Facebook Private (https://www.facebook.com/groups/slasonline): 83 members
Facebook Public (https://www.facebook.com/stlastro): 3294 followers Facebook Jefferson College (https://www.facebook.com/JCObservatory) 847 followers Twitter (https://twitter.com/stlastro) : 217 followers Instagram (https://www.instagram.com/stlouisastro/) : TikTok (https://www.tiktok.com/@stlouisastro?): LinkedIn (https://www.linkedin.com/groups/14251117/): YouTube (https://www.youtube.com/channel/UC6xO5niZnSeeOUSmp5PRz4A):

N. Night Sky Network

O. SLASdialogs (part of Website Budget) SLAS Groups.io – 148 members, Annual $110 account fee is due in January each year

P. Dark Site – Special Use Permits have been received for Danville and Whiteside for 2024 are stored in the groups.io folder linked https://groups.io/g/SLASDialogs/files/Permits.

Q. Observing Programs:

R. Star Party Donation:

11. Closing Activities: Brad motion to adjourn second Bill meeting adjourned 9:10pm

St. Louis Astronomical Society
Profit & Loss Budget vs. Actual
January through November 2024

	Jan - Nov 24	Budget	$ Over Bud...
Ordinary Income/Expense			
Income			
Events Income	1,803.59	250.00	1,553.59
Magazine Subscription	1,998.20	2,549.40	(551.20)
Membership Dues	4,625.00	4,490.00	135.00
Total Income	8,426.79	7,289.40	1,137.39
Cost of Goods Sold			
Magazine Subscriptions	1,342.69	2,549.40	(1,206.71)
Total COGS	1,342.69	2,549.40	(1,206.71)
Gross Profit	7,084.10	4,740.00	2,344.10
Expense			
1-Programs & Events	2,272.02	3,220.00	(947.98)
2-Newsletter	648.01	550.00	98.01
3-Library expense		150.00	(150.00)
4-Astronomical League Dues	1,228.00	1,070.00	158.00
5-Loaner Scopes	141.97	100.00	41.97
6-Brochures	607.20	550.00	57.20
7-Insurance	1,163.09	1,165.00	(1.91)
8-Website	677.20	750.00	(72.80)
9-Administrative Expenses	3,172.31	3,545.90	(373.59)
Jefferson College Observat...	179.87		179.87
Total Expense	10,089.67	11,100.90	(1,011.23)
Net Ordinary Income	(3,005.57)	(6,360.90)	3,355.33
Other Income/Expense			
Other Income			
Donations	945.00		945.00
Interest Income	1,291.88	50.00	1,241.88
LTP Receipts	1,573.49		1,573.49
Total Other Income	3,810.37	50.00	3,760.37
Other Expense			
LTP Disbursements	1,187.14		1,187.14
Total Other Expense	1,187.14		1,187.14
Net Other Income	2,623.23	50.00	2,573.23
Net Income	(382.34)	(6,310.90)	5,928.56

St. Louis Astronomical Society
Balance Sheet
As of November 30, 2024

	Dec 31, 23	Nov 30, 24
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	12,072.69	12,892.43
Deposit, Certificate of	16,000.89	47,291.44
Library Telescope Escrow	1,964.87	2,451.22
PayPal	152.96	329.21
Savings - First Bank	43,138.18	13,139.51
SLAS Eclipse Conference Escr...	2,580.32	2,580.32
Total Checking/Savings	75,909.91	78,684.13
Other Current Assets	916.87	806.21
Total Current Assets	76,826.78	79,490.34
Fixed Assets		
Accum Depr - Office Equp	(216.65)	(216.65)
JC Scope and Observatory	9,137.44	6,091.54
Office Equipment	216.65	216.65
Total Fixed Assets	9,137.44	6,091.54
TOTAL ASSETS	**85,964.22**	**85,581.88**
LIABILITIES & EQUITY		
Equity		
Opening Bal Equity	8,497.66	8,497.66
Retained Earnings	81,754.13	77,466.56
Net Income	(4,287.57)	(382.34)
Total Equity	85,964.22	85,581.88
TOTAL LIABILITIES & EQUITY	**85,964.22**	**85,581.88**

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 2025: 1/02, 2/06, 3/06, 4/03, 5/01, 6/05, 7/03, 8/07, 9/04, 10/02, 11/06, 12/04

SLAS Dark Sky Observing Dates All dates on Saturdays 12/28, 1/25/25, 2/1, 3/1, 3/29, 4/26, 5/24, 6/28, 7/26, 8/23. 9/20. 10/18, 11/22, 12/20

Francis Park Events: These events are on Wednesdays of the week nearest the first quarter Moon See you next year! 4/2, 5/7, 6/4, 7/2, 7/30, 8/27, 9/3, 10/1, 10/29

Aim for the Stars Public events held on 3rd Saturdays at the Jefferson College Observatory and Patio. 12/21, : 2/15, 3/15, 4/19, 5/17, 6/21, 7/19, 8/16, 9/20, 10/18, 12/20

Stargazing at the Arch Events for the public held at the Gateway Arch See you next spring!

Tower Grove 2025: 4/5, 5/3, 6/7, 7/5, 8/2, 9/6, 10/4

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 PTV – 12/6; 2/7, 3/7, 4/4, 5/2, 6/1
Solar Sunday – 12/15, 1/19, 2/16, 3/16, 4/20, 5/18, 5/25, 6/1, 6/8, 6/15, 6/22, 6/29

Dobsonfest - 9/13/2025 Stacy Park. Hosted by SLAS

Pattonville Observatory Public Viewing Dates 11/22, 12/13, 12/19, 1/10, 1/24, 2/7, 2/28, 3/7, 3/28, 4/11, 4/25, 5/2, 5/9

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

	December
20 Fri	**SLAS Regular Meeting**
28 Sat	**SLAS Dark Sky at Danville**
	January
2 Thur	**SLAS Board Meeting**
6 Mon	**SLCL Volunteer Fair**
17 Fri	**SLAS Regular Meeting**
23 Thur	**SLAS New Member Zoom**
25 Sat	**SLAS Dark Sky Danville**
	February
1 Sat	**SLAS Dark Sky Danville**
6 Thur	**SLAS Board Meeting**
6 Thur	**PNH Science Night**
7 Fri	**First Friday SLSC PTV**
8 Sat	**Library Telescope Maintenance**
12 Wed	**Incarnate Word Parish School**
15 Sat	**Aim for the Stars at JCO**
21 Fri	**SLAS Regular Meeting**
27 Thur	**SLAS New Member Zoom**
	March
1 Sat	**SLAS Dark Sky at Danville**
6 Thur	**SLAS Board Meeting**
8 Sat	**Holy Trinity Family Fellowship**
13 Thur	**Total Lunar Eclipse Viewing**
15 Sat	**Aim For the Stars at JCO**
21 Fri	**SLAS Regular Meeting**
27 Thur	**SLAS New Member Zoom**
29 Sat	**SLAS Dark Sky at Danville**

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 _____

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

Individual @ $25.00 / 1 year $_____

Family @ $40.00/1 year $_____

TOTAL ENCLOSED **$_____**

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

Check all that apply:
___ Renewal
___ Address Change Only
___ Please send my newsletter by regular mail
___ ***New Member!***

For magazines, use the following links. SLAS no longer processes magazines.

Sky and Telescope New Subscriptions - **https://skyandtelescope.dragonforms.com/loading.do?omedasite=SKY_ren_print_club**

Renewals - **https://skyandtelescope.dragonforms.com/loading.do?omedasite=SKY_new_club**

Astronomy Magazine - https://kalmbach.dragonforms.com/loading.do?omedasite=ASY_Club&pk=2PA4C1

Star Date magazine, a product of McDonnell Observatory. **https://stardate.org/**

SLAS OFFICERS

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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)***
treasurer at slasonline.org 636-357-2763

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MSRAL Rep. ***Peggy Walker*** 918-640-0832
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darksite at slasonline.org

Librarian ***Jim Small*** 314-909-7211
librarian at slasonline.org

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Devoted to the Interest and Advancement of the Science of Astronomy

ST. LOUIS ASTRONOMICAL SOCIETY

We're on the Web!
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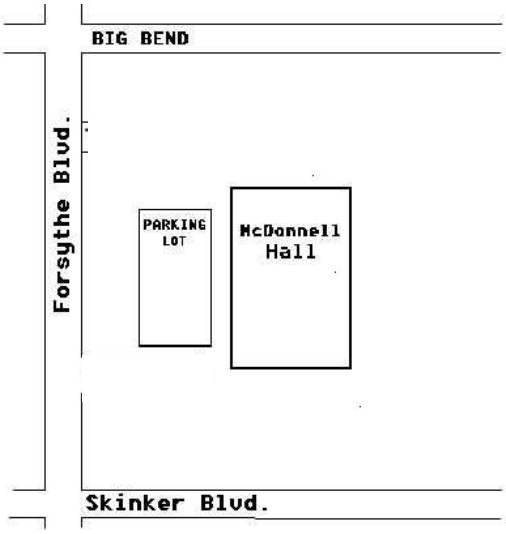
Who We Are and What We Do

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 anyone 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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