THE EVENT HORIZON

ST. LOUIS ASTRONOMICAL SOCIETY

Devoted to the Interest and Advancement of the Science of Astronomy

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The Case For Mars

by

Robert Zubrin
The Mars Society

Dr. Robert Zubrin of The Mars Society will be featured at the November meeting of the Saint Louis Astronomical Society. The meeting will begin at 7:30 PM Friday, November 15, in McDonnell Hall, Room 162, on the Danforth campus of Washington University,

Since the beginning of human history, Mars has been an alluring dream—the stuff of legends, gods, and mystery. The planet most like ours, it has still been thought impossible to reach, let alone explore and inhabit. Unlike the dead world of the Moon, the Martian landscape is filled with possibility, but humans must be able to survive there. Zubrin calls for a travel-light and live-off-the-land approach to Martian settlement. He explains how scientists can use present-day technology to send humans to Mars; produce fuel and oxygen on the planet's surface with its own natural resources.

Robert Zubrin is an American aerospace engineer, author, and advocate for human exploration of Mars. He and his colleague at Martin Marietta, David Baker, were the driving force behind Mars Direct, a proposal in a 1990 research paper intended to produce significant reductions in the cost and complexity of such a mission.

Upcoming meetings:

December 2024: Robert Reeves; "Postcards from the Moon"; LPOD Harvard University
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!
October 18 Meeting will be In Person and Online!

The meeting will begin at **7:30** PM Friday, October 18 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: Nov 15, 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

Remember, this month we go over the budget for next year in preview of next month's vote by the membership.
Also, if you got notification of receiving a membership service pin, they will be given out this month as well !!
Sure hope to see you at the meeting this month!

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President's Corner
by Jim Small

It's been a rough month for me personally as I was in the hospital a couple of weeks ago for a week. I had to cancel a couple of classes and an observatory stint, then did two classes via zoom before finally returning to a normal schedule in class Wednesday. Easy class… gave a test. More or less back to normal again, this time with portable oxygen. I'll be at the meeting on Friday. Hope to see you there!

Friday we are giving service awards to a bunch of members. You've been notified, so I sure hope to bring us some joy and accept your pin and certificate in person! It would be great to have more people at the in-person meeting as we are back to normal now. Come enjoy some coffee, conversation and a few snacks. The before and after gab sessions at the meetings are always fun. Lots of good conversations.

We are also going over the 2025 budget after the meeting. This is your opportunity to look at our plans for next year, see the changes and comment or give us suggestions for other changes. We will vote on the budget at the December meeting. It is contained in this newsletter.

MSRAL convention dates have been determined. It will be June 13-15 in Little Rock and is hosted by the Central Arkansas Astronomical Society. No information about the event is available yet, but it's still plenty early. Be sure to mark your calendars!

There has been lots of activity and interest in the night sky by the general public lately ranging from two comets, auroral displays to the Beaver Supermoon! A good opportunity for some good outreach and photography. If you have a nice photo or two to share with some of the latest events, please send them to jrsmall at earthlink.net and I'll try to get them in the newsletter.

There are still plenty of star parties left to get you qualified for the annual Night Sky Network outreach pin. You need to help with five events to qualify. Be sure to post your hours because we can't give you credit if you don't record them. Check on NSN to see how many events and hours you have currently. Mark Jones tracks that info, so he will be able to tell you what you have if you can't get it.

December we will give out the special awards. We have five awards to give this year. If you are a recipient, it would be fabulous if you could attend the meeting to receive your award!

This months meeting features author Robert Zubrin and his "Case for Mars" It should be a great talk. Next month is Robert Reeves, famous Moon expert. Also a great talk! Thanks to Brad for setting it all up! - Jim Small

SLAS Memberships Expiring in November

Joseph	Barteau
Bill	Cahill
Gaurang	Gupte
Randy	Harrison
Bill	Poletti
Rodney	Simmons
John	Taylor
Craig	Walters
Brian	Williams

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

How I Turned our Monthly Meeting Into a STAR TREK MEETING|
by Bradley Waller

SLAS Elections, Star Date: 19 May 2017. I was elected Vice President of the St Louis Astronomical Society (SLAS….The REAL SLAS! Not the goofy one from Salt Lake City, Utah!) The main purpose of the SLAS VP: Book Presenters for our Monthly Meetings. They occur on the third Friday of the Month, Washington University: St Louis @ 1930 CDT, in person and via ZOOM. My main goal is to Book three meetings I REALLY want to have. My only Restriction: They had to be Space/Astronomy/Science related… mostly Astronomy.

My List of Meetings I REALLY Want to Have

Star Trek: I think I have accomplished this one… Read the Article

UFOs: A serious Presentation on this Topic, not one dedicated to "Little Green Men". I might have achieved this with my Presenter: 18 April 2025: Avi Loeb, PhD, Harvard University. "The Search for Interstellar Objects of Technological Origin"

Dinosaurs: This one is going to be very difficult. You see, I want to have a meeting talking only about Dinosaurs. We all have a Dinosaur loving inner 12-year-old lurking within us. Mine has an advantage though! It has Contacts and can book Presentations! A possible Topic for this Presentation: The Chicxulub Crater Event. If anyone knows ANYONE who can talk about Dinosaurs and this Event, PLEASE… For all our inner 12-year-olds, Contact me!

Off to the Final Frontier. In 2023, I turned 60. Every year, during the first weekend in August (Wednesday through Sunday), Star Trek holds its main Convention in Las Vegas. Yes, there are other Trek Conventions held in other cities, but, Vegas, is the BIGGEST and the BEST!!! Nearly every major character from all the Series: TOS, TNG, DS9, Voyager, Enterprise, the Movies, Discovery, Picard, Lower Decks, and my current favorite, Strange New Worlds, will be there. Minor Actors/Actress' who perhaps who were only in one episode, Barbara Luna (Lt Marlena Moreau: "Mirror, Mirror"), Sean Kenney (Capt Pike: "The Menagerie") and Bobby Clark (The Gorn in Arena), just to name a few will be in attendance. So EXCITED!!! Time to channel my inner Ferengi (Quark) and build up my Gold Pressed Latinum Reserves!

I started working extra nights and weekends in my Bestest Bud's Tax Office, **Hirsch**

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Accounting and Tax Services. For my Birthday, my Bestest Bud, Ken, covered my hotel stay!!!! THANKS, BESTEST BUD!!! How to get there? Southwest (Galileo Seven) flies there. Hey, my good Friend, Carol Peirick, yes, a GIRL :-) is a Flight Attendant for Southwest! She gave me a Family/Friends Discount Coupon for my Flight!!! Thanks, CAROL!! Next item on the List, Convention Pass: General Admission, yes, purchased with a July 4th on 25% discount!!! Time to check out the Attending List to see who was coming. Of course, you have the major ones, Shatner, Takei, Mulgrew, and nearly the entire casts from TNG, DS9, Voyager, Enterprise, WAIT, Voyager?? Umm, Tim Russ (Tuvok) was going to be there. This is my chance to have Star Trek at our Monthly Meeting! WHY??

During an interview with Mr Russ on the Discovery Channel, he stated he was an Amateur Astronomer and LOVED Star Gazing. Since I was going to be at the Vegas Convention and Mr Russ was going to be there, all I had to do was to buy an Autograph Ticket, and I will have my chance to meet him. SWEEEEEET! What should I have Mr Russ Sign?? Only one item would do: A GIANT HAIR PICK from the movie, "Space Balls". He was one of the Stormtroopers "Combing the Desert" when he utters one of the GREATEST Lines in Hollywood History: **"We Ain't Found SH*T!!!"**

After a quick Amazon search, I had my Pick. Now all I needed was his Autograph Ticket. Easy-peasy, right?? NOPE! SOLD OUT and with mere weeks to go before the Convention, what was I going to do??? Those weeks dragged by….FINALLY, it was time to board the Galileo Seven…. Vegas, BABY!!

Trek Conventions are mainly to meet fellow Trekkies, to get autographs, to buy COOL Trek stuff, attend panels, and to revel in the Federation! While in line for Nana Visitor (Kira Nerys, from DS9) I met, Matt and Charolette Vilanova, of Seymour, Connecticut. I told them about not having a ticket for Tim Russ and my reason why I wanted to meet him. They looked at each other and grinned… Charolette reached into her backpack and pulled out a TIM RUSS AUTOGRAPH TICKET! They had an extra one and would I like it?! To quote Starbuck from Battlestar Galactica "OH FRAK YEAH!" Where is Mr Russ' Line? Yes, I brought the Pick! QUE, The Firm! "Star Trekkin' Across the Universe"!!!

With SpongeBob SquarePants pounding in my Head (replacing, The Firm), "I'm Ready, I'm Ready, I'm Ready!!" I located his Line... Umm, not too bad. 50 people, 25, 10, 5…NEXT!! I slid the pick towards him (I believe I was the only one who had a Pick for him to sign). He smiled: "You want the Line?" Of course… What else would I want! This was my opening. I informed Mr Russ that I was the VP of the St Louis Astronomical Society (SLAS). He asked how many Members we had…250! I inquired, "Do you do Presentations to Astronomy Clubs"… Yes! I gave him my SLAS Business Card. I knew he took it seriously when he put it into his wallet. I asked him if he had an e-mail address, I could reach him at. He responded, "Google me. I am the third one down." AWESOME! I could not wait to Thank, Matt and Charolette AGAIN for their kindness! They are on my Christmas Card List for 2023, 2024, 2025 and BEYOND!

The rest of the Convention was AMAZING!! Wandering around, talking about Trek, without getting the rolled eyes looks, buying Trek items, attending on Panels, and acquiring signatures! Lines can be long, especially if the person is only there for a day. For example, CAPTAIN JAMES T KIRK, William Shatner, is only there on Sundays. At 92, his line was over 300! It took him less than 2 hours to get through the Line. Very little chit, chat, IT IS ALL BUSINESS with the Captain… Remember the Seinfeld Episode with the "Soup Nazi"?? Slide item to him… He signs it… You thank him…You pick it up… smile and MOVE on One last item... STAR TREK MOVIES! Star Trek II (Khan) …Star Trek IV (The Whales)... and Galaxy Quest (The fifth best Trek Movie EVER!) were shown. What a way to celebrate #60!

When I got Home, I Googled, Tim Russ. FOUND HIM… and YES, he is the third one down. Message sent. Only TWO hours later: BOOKED!!! 15-Dec-2023 Tim Russ "My Journey Through the Stars: Past and Present"

For my inner twelve-year-old, it was waiting for Christmas all over AGAIN! August... September… October… November... FINALLY, 15 December 2023 had arrived! Time to bust out my TOS Command Gold Uniform top! We boosted our Zoom Account for the extra people attending. Promptly, at 1930 CDT, SLAS President, Jim Small, opened "Hailing Frequencies". Contact established…. Uhura would have been proud.

After a short 5-minute Presentation, Mr Russ, asked, "Any questions"? Good Golly Miss Molly!! You thought we were at a White House Press Briefing! The Flood Gates had burst opened and for the next 90 minutes, Mr Russ answered questions on what telescopes and lenses he uses, where he observes, and, if he did any Astrophotography. The Evening went by at Warp Speed. What a Night! Hey… are the Bells tolling 2100?? NOOOOO!! You see, Mr Russ is a musician and lives in LA. For the past 40 years, he and his Band have Gigs at Local Venues.

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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.

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)							

(Continued from page 3)

He had to join his Band Mates for a Gig an hour away. Local in LA: Anything within 2 hours! We certainly could have used Scotty's Transporters! His CDs are available on Amazon. The one I have is 1970's Rock. Brought me back to my Junior High School Days! Well worth the purchase! Yes, I have signed copy!!!

Final Report, Star Date: 01 October 2024.... If you are wondering, yes, there were a couple Star Trek Questions asked. Good ones! "Did your Voyager cast members enjoy it when you brought your scope to a Location AND do you know any other Star Trek Actors/Actress' who like Astronomy? " Yes, they enjoyed the viewings and no, he did not know anyone else into Astronomy. After the Meeting, I was walking around literally doing "High Fives"! I found out later, The Astronomical Society of Kansas City (ASKC), booked Mr Russ for ALCON 2024. Thank-you Mr Russ for an absolute AWESOME TREKKIN' MEETING!

I can now cross-off #1 on my List of Meetings I want to have :-)

While at the Convention, I booked three other Presenters for 2024

19-Jan-2024 David A Williams, PhD "ASU Explores the Solar System" Arizona St Univ

15-Mar-2024 Tom Rathjen "The Moon & Beyond" NASA

15-Nov-2024 Robert Zubrin "The Case for Mars" The Mars Society

St. Louis Astronomical Society
Executive Board Meeting Minutes 10/3/2024

1. Opening Activities: a. Attendance: Jim Small. Dennis Latinette, Bill Winningham, Mark Jones, Brad Waller, Larry Campbell, Brent Buch b. Open Meeting: Meeting opened at 7:09pm c. Approval of last month's minutes. Jim motion to approve second by Bill. Minutes approved d. Next Board meeting date: 11/7, 12/5 Meetings will be via Zoom until further notice: Night Sky Network website has gone through major updates. Some functions used in past have been broken, report any issues to nightskyinfo@astrosociety.org SLAS website was heavily spammed with a flooding of emails for several days between 9-21-24 and 9-30-24. If necessary, members should add alias@slasonline.org to their spam blocker. Report any issues to Jim Small 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: 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. Action: Brent to look into using YouTube for our video. Brent to report to Board about limitations and accessibility. Standing Action: SLSC Report by Will Snyder.** Action: Brad to update NSN for First Friday events. Remove "Visitors should enter from the Science Center building on Oakland and take walkway across I64 to Planetarium signs and staff should be there to direct you." Public can now park and enter from Planetarium. Response: Brad made corrections this action can be closed Action: Plan 10th anniversary for LTP at October SLAS meeting. Maybe A101 (J. Small) and cake (L. Campbell). Dennis will leave key and cooler with Larry at September meeting. Action can be closed.

2. Upcoming General Membership meeting topics a. Speaker: Pamela Gay, PhD; "Super-Secret Squirrel Stuff" b. Schedule room at Wash U. Back in McDonnell Hall. c. Who is recording meeting? Brent d. Special Awards needed Handout leftover Anniv and Outreach certificates e. Speaker Press Release and social media: Release not out yet f. Special Business – g. Announcements: Missouri Dark Sky (Oct 25-26) A101 for October – Jim Small to speak on 10 years of the Library Telescope Program 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 $125 Action: Larry trying to send expense reports to Bill W. Last expense report is 4-24-24. Bill will send email for Larry to reply to. Larry will respond and send expense reports. Response: reports received and paid; action can be closed.

3. SLAS Financial Report a. Balance Sheet: Total Assets: as of 8/31/2024. Cash assets of $76213, Total assets $83,941 b. Profit/Loss report: net income -$2022 vs budget income -$4,135. AL dues were paid in August. Bill plans to file sales tax for eclipse glasses sales in October 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. 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: 2024 Budget: $1070, AL sends invoice around July Was paid in August over budget by $138. Per member fee went up from $5 to $6/member. Annual Ballot for election of national officers. Ballot normally emailed around May 21st and need to be returned by July 1st. **Action: Bill to send request to AL to change his email for sending future ALCOR emails 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://kyandtelescope.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***

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
18-Oct-24	Pamela Gay, PhD	Super-Secret Squirrel Stuff	Area 42
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	Tom Rathjen	What's Happening in Human Space Flight	NASA
14-Apr-25	Avi Loeb, PhD.	The Search for Extra-Terrestrial Life and Our Future in the Stars	Harvard University
16-May-25	SLAS Panel	New Digital Era in Astronomy	SLAS Members
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)

Action: Mark to get mailing address and phone number for Robert Reeves. Response: Mark provided info to Brad, action can be closed d. Topics of interest - Note from Dr Daylan 9-27-2024: Dear Bradley, I am writing to confirm that Duncan will indeed be able to give the public talk during the SLAS monthly meeting on March 21, 2025. His accommodation has already been booked.

He is arriving on March 19 and leaving on March 22. So, I propose to reserve the March meeting for Duncan's talk. I so much appreciate your flexibility! e. Stipends f. Travel

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.**

6. Membership Recognition a. Total Budget 2024 Budget $500, Balance $456 b. NSN Outreach Awards: Awards made in Feb each year c. Membership Report: September membership report for SLAS showing 231 members. We have gained 20 members this year but are down 12 members from our peak in June of 243 members **Action: Jim to contact NSN. NSN seems to have a disconnect 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.** d. Member anniversary – Next event is November meeting. Mark produced spreadsheet with awardee names. This year we will have one 70-year plaque; one 50-year pin; two 40-year pins; one 30-year pin; six 20-year pins; three 15-year pins; nine 10-year pins; and eight 5-year pins. Mark also estimated pins for 2025 anniversaries: two 55-year plaques; one 50-year pin; one 45-year pin; two 35-year pins; three 25-Currently we only have pins from 5, - 50 in 5yr increments. Anyone longer than that only received a certificate and plaque. **Action: Mark to generate anniversary certificates and send to Brad for printing. Action: Larry to buy member anniversary pins needed for November meeting 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 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: **Action; Mark need T-shirt design. Mary and Joe Barteau volunteered to come up with T-shirt designs. Slideshow of examples sent to Board on 10-31-23. Action remains open until final design selected. Board preferred Safety Green in style #3 is preferred by Board Do they have t-shirt in a Tall/long?** d. Purchase signs for outreach per budget: e. Upcoming outreach events: As of May 28th, we have 61 events scheduled for rest of 2024 Gateway Arch - Oct 18 (Friday) Francis Park –October 9 Tower Grove Park – Oct 12 First Friday – 10/4, 11/1, 12/6 Solar Sunday –10/20, 11/17, 12/15 f. Awards/ recognitions –g. NSN Outreach hours: Total Hours Reported in NSN: 923 hours as of Oct 3, 2024

8. Old Business:

9. New Business 2025 Budget Planning Creating SLAS Google-Drive Account for storing important files. Creating SLAS Google-Drive 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

10. Other Committee Reports: If needed

A. SLSC Business: Planetarium parking lot and entrance is now open a. First Friday actions – see above b. Other immediate business

B. SLCL Business a. Annual contract – No contract yet for 2024. b. Upcoming events – Press release went out for 10 anniversaries, see calendar, we have 4 events planned for remainder of 2024
Samuel Sachs Library (LTP) 2024-10-09
Eureka Hills Library (LTP) 2024-10-10
Prairie Commons Library (LTP) 2024-11-07
Oak Bend Library (LTP) 2024-11-07

C. Jefferson College Business: a. Committee Meeting report: next meeting scheduled for Oct 18 at 9 am. b. Upcoming Outreach Event: JCO – Oct 19, Nov 16

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 – c. Maintenance budget – none requested d. Mileage re-imbursement – see above e. Promotional materials - none requested

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 Possibly adding a Lake Carlyle event for spring 2025.

Other

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

G. Loaner scope Program a. Budget – 2024 Budget $100, Balance $42 b. New donations: Note (9-27-24) from Rich Jennings on possible donation or sale - Robert Powell, our director at Challenger Learning Center, has a contact who is looking to dispose of an 8" telescope. I do not have any specifics on this scope or if it is a sale or donation. If you would have interest in acquiring it for our Loaner Scopes, or have another suggestion, let me know and I'll get the specific information on the scope and pass along to you. 9-26-2024. SLAS bought Steve Knapp's 17.5" Dobsonian telescope for $75. Scope is at Mark Joes' house undergoing repairs, cleaning and alignment. Our goal to is move it to JCO to use on patio. 9-21-2024 Recently donated Meade 10" LX200 was moved to JCO and mounted on scopebuggy. The Meade 10" LX50 that was previously at JCO for members to used was moved back to Mark Jones' house for sale. Asking price $500. c. Replacement Parts for the LTPs - d. Items for sale several: Listed on FaceBook Marketplace - For Sale $800 - Celestron 8" SCT Black Tube, Vixen rail, Starbright Coatings, Faststar Compatible, Model #11023-1. Celestron Visual Back 1 1/4". JMI MotoFocus for C-8. Orion FlexiShield, dew shield. News sells for $44. Rubbermaid Tool Box, Grey/Black 34" x 12" x 15". Item above was posted for 3 weeks without offer. Price reduced to $500. Notice also published on SLASDialogs and STLAstronomy. C-8 optical tube assembly and accessories were sold on 9-21-2024 for $500 to SLAS member.

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

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.

M. Social Media Platforms: Facebook Private (https://www.facebook.com/groups/slasonline): 81 members Facebook Public (https://www.facebook.com/stlastro): 3265 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 – 146 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 Parties Donation:

11. Closing Activities: Motion to adjourn the meeting by Brad, seconded by Dennis meeting adjourned at 9:21pm

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

	Jan - Oct 24	Budget	$ Over Bud...
Ordinary Income/Expense			
Income			
Events Income	1,803.59	250.00	1,553.59
Magazine Subscription	1,998.20	2,310.15	(311.95)
Membership Dues	4,430.00	4,225.00	205.00
Total Income	8,231.79	6,785.15	1,446.64
Cost of Goods Sold			
Magazine Subscriptions	1,342.69	2,310.15	(967.46)
Total COGS	1,342.69	2,310.15	(967.46)
Gross Profit	6,889.10	4,475.00	2,414.10
Expense			
1-Programs & Events	2,045.44	2,890.00	(844.56)
2-Newsletter	648.01	500.00	148.01
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	500.00	107.20
7-Insurance	1,163.09	1,165.00	(1.91)
8-Website	677.20	750.00	(72.80)
9-Administrative Expenses	2,892.05	3,234.00	(341.95)
Jefferson College Observat...	179.87		179.87
Total Expense	9,582.83	10,359.00	(776.17)
Net Ordinary Income	(2,693.73)	(5,884.00)	3,190.27
Other Income/Expense			
Other Income			
Donations	945.00		945.00
Interest Income	1,198.53	45.00	1,153.53
LTP Receipts	786.25		786.25
Total Other Income	2,929.78	45.00	2,884.78
Other Expense			
LTP Disbursements	1,187.14		1,187.14
Total Other Expense	1,187.14		1,187.14
Net Other Income	1,742.64	45.00	1,697.64
Net Income	(951.09)	(5,839.00)	4,887.91

St. Louis Astronomical Society
Balance Sheet
As of October 31, 2024

	Dec 31, 23	Oct 31, 24
ASSETS		
Current Assets		
Checking/Savings		
Checking - First Bank	12,072.69	13,094.01
Deposit, Certificate of	16,000.89	47,198.09
Library Telescope Escrow	1,964.87	1,563.98
PayPal	152.96	262.57
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	77,838.48
Other Current Assets		
Inventory Asset	841.87	781.21
Undeposited Funds	75.00	25.00
Total Other Current Assets	916.87	806.21
Total Current Assets	76,826.78	78,644.69
Fixed Assets		
Accum Depr - Office Equp	(216.65)	(216.65)
JC Scope and Observatory	9,137.44	6,368.44
Office Equipment	216.65	216.65
Total Fixed Assets	9,137.44	6,368.44
TOTAL ASSETS	85,964.22	85,013.13
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)	(951.09)
Total Equity	85,964.22	85,013.13
TOTAL LIABILITIES & EQUITY	85,964.22	85,013.13

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 12/5

SLAS Dark Sky Observing Dates All dates on Saturdays 11/30, 12/28

Francis Park Events: These events are on Wednesdays of the week nearest the first quarter Moon See you next year!

Aim for the Stars Public events held on 3rd Saturdays at the Jefferson College Observatory and Patio. 11/16, 12/21

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

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

Dobsonfest - See you next year!

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

	November
14 Thur	**Star Party at Scott AFB**
15 Fri	**SLAS Regular Meeting**
16 Sat	**Aim for the Stars at JCO**
17 Sun	**SLSC Solar Sunday**
22 Fri	**BWAC Star Party**
22 Fri	**Sierra Club**
28 Thur	**SLAS New Member Zoom**
30 Sat	**SLAS Dark Sky at Danville**
	December
5 Thur	**SLAS Board Meeting**
6 Fri	**SLSC First Friday**
15 Sun	**SLSC Solar Sunday**
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**
	February
6 Thur	**SLAS Board Meeting**
12 Wed	**Incarnate Word Parish School**
15 Sat	**Aim for the Stars at JCO**
21 Fri	**SLAS Regular Meeting**

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/**

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president at slasonline.org

Vice President ***Bradley R Waller*** 314-481-7250
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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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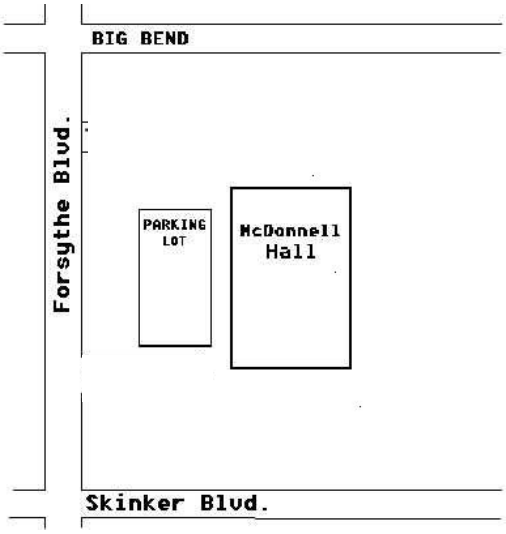
Who We Are and What We Do

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.



St. Louis Astronomical Society
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